Yahoo Group Archive: DAWG-HSMM

Yahoo Group summary: Dallas Area Working Group - HSMM

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2017. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2004-03-16 through 2017-05-10

Source WARC: dawg-hsmm.UVRi5AN.warc.gz

Source item: https://archive.org/details/yahoo-groups-2017-05-18T06-25-50Z-b9da62

Messages included in this PDF: 3187

Message records with no body available in the source archive: 1

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

1. March 16 Meeting

Yahoo group: DAWG-HSMM
Date: 2004-03-16 06:21:36 UTC
From: J. Beadles
Topic: 1 Message: 1

All,

The next meeting will be:
Tuesday, March 16
Collin County Community College
Spring Creek Campus
Classroom J-133 (south end of the bldg)
7pm to 10pm

To get to the Collin County Community College, take I-75 (Central Expressway) to Plano to the Spring Creek Exit. Turn East, drive to Jupiter Road. Turn right (south) on Jupter. Turn left into the campus entrance (next to the baseball diamond). The Campus is one large building divided into sections. The J section is in the south end of the building, and we assume that the room is on the first floor.

Agenda:

1. Merging with the North Texas Microwave Society
2. May 08 Richardson "Wild Ride" bike ride
3. NT5NT Access Point
4. Setting up training materials

2. Need some help.

Yahoo group: DAWG-HSMM
Date: 2004-03-17 15:05:39 UTC
From: John Galvin
Topic: 1 Message: 2

All,
Now that my laptop has decided to quit working on the PCMCIA port (my LAN and 802), it looks like I need to replace it. So, does anyone know of locations I might find an "economical" used laptop. Any and all suggestions will be greatly appreciated.

Thanks & 73, John - N5TIM

3. Re: Need some help.

Yahoo group: DAWG-HSMM
Date: 2004-03-17 23:11:56 UTC
From: J. Beadles
Topic: 1 Message: 3

--- In ntms-hsmm@yahoogroups.com, John Galvin <n5tim@c...> wrote:
> All,
> Now that my laptop has decided to quit working on the PCMCIA port
(my LAN
> and 802), it looks like I need to replace it. So, does anyone know
of
> locations I might find an "economical" used laptop. Any and all
> suggestions will be greatly appreciated.
>

John,

I know I've seen used laptops all over the place, but hard to narrow
down a specific. If I had to point to one, I'd say run over
to "Resource Concepts" on Frankford over near 35. They refurbish
used Dell laptops, and usually have a wide range of models and prices
and have most of the support parts (power supplies, CD-Roms, etc.).

4. 2.4G test equipment

Yahoo group: DAWG-HSMM
Date: 2004-03-19 14:51:19 UTC
From: mrwildbob
Topic: 4 Message: 4

Does anyone know of some equipment that will test a cable to see if it is good for 2.4G? Looking for something portable and of course not expensive. :)

boB
W5EVH

5. March 20 Test of AP

Yahoo group: DAWG-HSMM
Date: 2004-03-19 18:44:04 UTC
From: W Miller
Topic: 5 Message: 5

I'm checking to see if anyone had an extra loaner card for the
Saturday testing of the AP as my card's software went on the fritz
this last
Wednesday,if there isn't a card available I could volunteer as a
driver
utilizing my SUV as I'd like to be a part of the testing.

73's and Happy Friday!

BILL K2CHP

6. Re: [ntms-hsmm] March 20 Test of AP

Yahoo group: DAWG-HSMM
Date: 2004-03-19 21:58:07 UTC
From: Ron Cole
Topic: 5 Message: 6

I have been out of the loop.
What are the Plans for the 3/20 Test?

de
Ron
n5hyh

--- W Miller <k2chp2000@...> wrote:
> I'm checking to see if anyone had an extra loaner
> card for the
> Saturday testing of the AP as my card's software
> went on the fritz
> this last
> Wednesday,if there isn't a card available I could
> volunteer as a
> driver
> utilizing my SUV as I'd like to be a part of the
> testing.
>
> 73's and Happy Friday!
>
> BILL K2CHP
>
>
>
> ---------- Yahoo! Groups Sponsor
>
>
> Yahoo! Groups Links
>
>
> ntms-hsmm-unsubscribe@yahoogroups.com
>
>
>

=====
Ron

Do you Yahoo!?
Yahoo! Mail - More reliable, more storage, less spam
http://mail.yahoo.com

7. Re: March 20 Test of AP

Yahoo group: DAWG-HSMM
Date: 2004-03-19 23:19:22 UTC
From: J. Beadles
Topic: 5 Message: 7

Argh, I should have said...

The access point testing session be held starting at 6pm Saturday, March 20. We will meet at the base of the Nortel Building at 6 and start driving at 6:20pm. The address of the Nortel building is:

2221 Lakeside Parkway, Richardson, TX.
To get to the building:

1. Take Central Expressway to the Campbell Road exit in Richardson.
2. Get on the northbound access road
3. Turn right onto Lakeside Parkway (the first right).
4. There is a parking lot at the base of the building.
5. The building is a 16 story tall bldg and has a distinctive curve to it.

Operations and talk in will be on the NT5NT repeater, 443.325+, pl 110.9.

Please bring area maps. The AP is a repackaged Linksys WAP11 connected to a 16 db antenna which is facing roughly east north east toward Wiley. I have been able to hit the access point from the intersection of Greenville and Plano Road with a standard Orinoco PCCard client. Much beyond that I don't know what we will see. I was able to get plenty of signal with a 24 db antenna from the intersection of Lookout and 190, a distance of approx. 3.8 mi.

I'm thinking we will practice linking through the AP and driving the coverage area using Netstumbler or any other survey tools you might bring.

--- In ntms-hsmm@yahoogroups.com, Ron Cole <rdcole@y...> wrote:
> I have been out of the loop.
> What are the Plans for the 3/20 Test?
>
> de
> Ron
> n5hyh

8. MICROWAVE UPDATE 2004

Yahoo group: DAWG-HSMM
Date: 2004-03-22 00:41:32 UTC
From: n5pyk
Topic: 8 Message: 8

From Joe: This event only usually shows up in the DFW area once a decade or so. Don't miss this opportunity to really learn some neat stuff about microwave.

The North Texas Microwave Society is the proud sponsor of Microwave Update 2004 being held in Dallas, Texas on October 15 and 16, 2004. The conference will be held at the beautiful Harvey Hotel DFW Airport, just minutes from the north end of DFW Airport.

Microwave Update is the premier technical conference for the amateur radio operator interested in pursuing activities on the frequencies above 900 MHz. This years event will host technical presentations on both Friday and Saturday from your friends and peers pursuing projects in the microwave bands. This will be an ideal event for you to meet with and talk to your fellow microwave hams from around the world. If you are interested in presenting a paper at the conference, please let one of us know. As usual, the ARRL will be publishing the conference proceedings.

A tune-up clinic consisting of noise figure and network analysis equipment to 50 GHz will be conducted through out the event. The usual surplus tour hosted by the ultimate junk hound, Kent Britain, WA5VJB, will be conducted on Thursday. A Friday night flea market for the microwaver will provide the opportunity to both buy and sell. The conference will end with a fabulous Saturday night banquet to wrap up the event. The prize table will offer both ham and non-ham prizes.

For the ladies, a fun weekend of exploring Dallas/Ft. Worth antique shops, restaurants, old villages and much more. We are also looking at the possibility of craft demonstrations and classes plus a possible wine tasting tour for the women only!

For those that would like to spend some extra time in the DFW area, there are plenty of attractions to take in, including the Ft. Worth Stock Yards, Billy Bob's, Dallas West End, Dallas Arboretum, Kennedy museum, Gilley's in downtown Dallas, Six Flags over Texas, the Meyerson Center and numerous great golf courses in the DFW area.

The Harvey Hotel is within minutes of the DFW airport and provides exceptional conference facilities. The hotel offers free shuttle service to and from the DFW airport. Due to the popularity of the hotel for corporate functions during the week, the nightly rate for Thursday night is $89.00 plus taxes and $65.00 plus taxes per night for both Friday and Saturday nights. These rates are considerably reduced from the usual corporate rates, so we are real fortunate to be able to take advantage of the Harvey Hotel facilities for

Microwave Update.

The Harvey Hotel will provide on-line registration. Go to www.dfwairport.harveyhotels.com/ and click the Reservations box (the Boeing 747 picture). Once on the Reservations page, enter the dates you will be staying and 10606 in the Group/Event ID box. Scroll to the bottom of the page and click the Begin Search button. On the next information page, click the View Rates button. Then click Detail to see the rates for the following nights. These are the Microwave Update discounted room rates. Failure to mention Microwave Update will make it difficult for us to get the discounts on the meeting rooms which are based on the number of room nights that we book for our attendees. If you have not already picked the room type then click the Select button next to the desired room type. On the next page, Click-check the box "Accept Guarantee/Deposit & Cancellation Policy" and click Enter Guest Info button. Fill in your personal information and click the Complete Reservation button. It's that easy! For those wishing to call the Harvey Hotel reservations direct, the telephone number is 972-929-4500. Please mention Microwave Update.

As with most Microwave Updates, a test equipment table will be available to help tune up your equipment. Noise figure measurement capability will cover VHF through 47 GHz. This will be great for measuring those new microwave LNA's and converters. Network analysis capability will cover frequencies to 50 GHz. Tuning up filters and finding out the bandwidth of that unknown amplifier will be easy with the network analyzer. Spectrum analysis will cover frequencies to 26.5 GHz allowing one to take a look at the spectral output of a local oscillator. The spectrum analyzer also has a special phase noise module to measure and record the phase noise of your favorite LO (s). Power supplies will be available for your equipment. However, bring your special tools for opening and tuning your projects. Antenna gain measuring will be available at frequencies from 902 MHz through 47 GHz. There is a possibility that we will be able to push our equipment limits to 74 GHz, however, if there is anyone that would like to bring signal sources, noise sources, etc for 74 GHz please let us know.

Kent's world famous surplus and electronic store tour on Thursday will visit such places as TESCO, Texas Towers, AlTex, Tanner Electronics, several small parts stores, Fry's Electronics just to name a few.

Also, check out the NTMS website www.ntms.org and the Microwave Update website www.microwaveupdate.org for further information about MUD 2004.

This conference will be the microwave event for 2004. Don't miss it! Come join the fun and camaraderie in Big-D.

Al Ward W5LUA

Bob Gormley WA5YWC

Kent Britain WA5VJB

March 12, 2004

9. 802.11 Testing Activity Report

Yahoo group: DAWG-HSMM
Date: 2004-03-22 18:36:07 UTC
From: Joe - N5PYK
Topic: 9 Message: 9

I've placed an activity report on the NTMS web site under Activity reports www.ntms.org. Contributions made by both N5OOM (John) and myself. It also includes a map.

Please take a few moments and read over it. There are some findings that may be of use to some of you.

Also, I've started user-interface work for a instant messenger type client for amateur radio that we can use to send messages, files, know who is online, etc. If you have ideas for that, just let me know. Send it to n5pyk @ arrl. net (yes remove the extra spaces in the address).

Interestingly enough, Did a comparison with radio mobile.

Using the following network conditions
Freq Min 2400
Freq Max 2450
Surface Refractivity 330 (based on weather conditions at 8pm Saturday evening)
Ground conductivity (0.005) S/m (default)
Relative Ground permittivity 15 (default)
Horizontal Polarization
Broadcast variability (75% of situations, locations and time)
Additional loss (0%)
Climate Continental sub-tropical

The model has trouble with antennas really close to the ground (e.g. at 2m).. I used a 4m height on the remote end.

Computed signal strength is -82.5dBm (Really close) for Livonia Park
Signal strength at Home Depot, Wylie -81dBm (worse than observed) perhaps we were getting some enhancement off the stadium???

I did notice that Nortel is below the optical horizon from Livonia Park.
Good thing the K-factor works!

73,
Joe

10. 802.11x survey tools

Yahoo group: DAWG-HSMM
Date: 2004-03-22 22:10:31 UTC
From: J. Beadles
Topic: 10 Message: 10

All,

We need to collect a list of network and RF survey tools. I'm familiar with Netstumbler, anybody got a list of any others?

11. Re: [ntms-hsmm] 802.11x survey tools

Yahoo group: DAWG-HSMM
Date: 2004-03-22 23:52:39 UTC
From: Richard Turpen
Topic: 10 Message: 11

kismac is a native OS X sniffer similar to net stumbler, with full GPS integration

On Mar 22, 2004, at 2:10 PM, J. Beadles wrote:

> All,
>
> We need to collect a list of network and RF survey tools. I'm
> familiar with Netstumbler, anybody got a list of any others?
>
>
>
> ---------- Yahoo! Groups Sponsor
> ----------~-->
> Upgrade to 128-bit SSL Security!
> http://us.click.yahoo.com/LPJzrA/yjVHAA/TtwFAA/5AhqlB/TM
> ---
> ~->
>
>
> Yahoo! Groups Links
>
>
>
>
>

[Non-text portions of this message have been removed]

12. Re: 802.11x survey tools

Yahoo group: DAWG-HSMM
Date: 2004-03-23 03:38:16 UTC
From: J. Beadles
Topic: 10 Message: 12

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <n5oom@a...> wrote:
> All,
>
> We need to collect a list of network and RF survey tools. I'm
> familiar with Netstumbler, anybody got a list of any others?

Now that I asked, here's a list of stuff:

http://www.networkintrusion.co.uk/wireless.htm

And some of the individual links:
http://www.netstumbler.com/

Etherreal is a packet analyzer, lets you see what traffic is coming
over your network.
http://www.ethereal.com/

AirSnare looks nifty. It monitors your network, looking for
unfriendly MAC addresses. If it finds something it doesn't like, it
can fire Etherreal to capture the traffic.
http://home.comcast.net/~jay.deboer/airsnare/

13. 72 mile link article

Yahoo group: DAWG-HSMM
Date: 2004-03-23 15:56:49 UTC
From: W Miller
Topic: 13 Message: 13

I found this article dating back 11/2002 but it's worthwhile reading.

http://www.computerworld.com/mobiletopics/mobile/story/0,10801,75830,00.html

73's Bill K2CHP

14. Re: 72 mile link article

Yahoo group: DAWG-HSMM
Date: 2004-03-24 18:39:29 UTC
From: J. Beadles
Topic: 13 Message: 14

--- In ntms-hsmm@yahoogroups.com, "W Miller" <k2chp2000@s...> wrote:
> I found this article dating back 11/2002 but it's worthwhile
reading.
>
>
http://www.computerworld.com/mobiletopics/mobile/story/0,10801,75830,0
> 0.html

That's pretty nifty, and harkens back to the days of yore when I did microwave path planning. We rarely did over 30 miles on 4 & 6 Ghz, but then we had to design to pretty high reliability standards (no more than x minutes of outage per year) so our design criteria were pretty strict. If you can stand more outage, you can relax your criteria.

Before we started this Yahoo group, KV5E posted this link to an article discussing theoretical maximum 802.11b path lengths:

http://peertech.org/LongShotWiFiTiming

15. Re: [ntms-hsmm] Is the 72 mile link Legal ? & the N5HYH hsmm Station.

Yahoo group: DAWG-HSMM
Date: 2004-03-25 06:39:50 UTC
From: Ron Cole
Topic: 13 Message: 15

Hi,

Interesting article but should I point out that 1 watt into a 24 dbi antenna puts him in violation of the Part 15 rules for WiFi ?

From my understanding of those rules is to meet the spec he should reduce power by 6 db. That is reducing power by 1 db for ever 3 db over 6 dbi of antenna gain.
(24-6)/3 = 6

Now if that was a Ham Radio link?..

The station I am putting together uses a 1W Hyperlink HA4201 Amp and an old ATV Rx antenna, which I believe to be 24 dbi. Current plans call for improving the feed point with 2-11 Ghz PCB Log Periodic Yagi. One of the WA5VJB designs. The Radio is an Orinoco Gold card. I?ll probably drive this with my Linux Laptop.

Now if I can just get back to Dallas to spend some time in the garage working on these projects.

de
N5HYH

=====
Ron

Do you Yahoo!?
Yahoo! Finance Tax Center - File online. File on time.
http://taxes.yahoo.com/filing.html

16. Re: Is the 72 mile link Legal ? & the N5HYH hsmm Station.

Yahoo group: DAWG-HSMM
Date: 2004-03-25 19:51:25 UTC
From: J. Beadles
Topic: 13 Message: 16

--- In ntms-hsmm@yahoogroups.com, Ron Cole <rdcole@y...> wrote:
> Hi,
>
> Interesting article but should I point out that 1 watt
> into a 24 dbi antenna puts him in violation of the
> Part 15 rules for WiFi ?
>
> From my understanding of those rules is to meet the
> spec he should reduce power by 6 db. That is
> reducing power by 1 db for ever 3 db over 6 dbi of
> antenna gain.
> (24-6)/3 = 6

Y'know, that's true. At least, thats what we were taught.

> Now if that was a Ham Radio link ..
>
> The station I am putting together uses a 1W Hyperlink
> HA4201 Amp and an old ATV Rx antenna, which I believe
> to be 24 dbi. Current plans call for improving the
> feed point with 2-11 Ghz PCB Log Periodic Yagi. One of
> the WA5VJB designs. The Radio is an Orinoco Gold
> card. I'll probably drive this with my Linux Laptop.
>
> Now if I can just get back to Dallas to spend some
> time in the garage working on these projects.

That's the way to go, to be sure. I really want a couple of Orinoco based APs because they are accepted with the Orinoco cards. Few of the off the shelf devices are, that I know of. Yell when you are back in town, we need to try to set up a link.

17. RE: [ntms-hsmm] Re: 802.11x survey tools

Yahoo group: DAWG-HSMM
Date: 2004-03-26 04:37:51 UTC
From: Chris Ward
Topic: 10 Message: 17

Were was the link for the cable the link radio and the tiny trak3

Thanx

CW

WD5CW

[Non-text portions of this message have been removed]

18. 802.11b Channel Frequency Spread

Yahoo group: DAWG-HSMM
Date: 2004-03-29 16:13:00 UTC
From: Douglas Kilgore
Topic: 18 Message: 18

Here's a good article explaining about the frequency spread of 802.11b.
Pictures showing bandspread on a spectrum analyzer make it easy reading.

The whole article is about the Broadcom - Atheros controvery about
Super-G products.

http://cablemodemshare.com/Sections-article59-page3.php

Doug Kilgore KD5OUG

19. 04 Wild Ride hsmm graphics roundup

Yahoo group: DAWG-HSMM
Date: 2004-03-30 00:03:30 UTC
From: J. Beadles
Topic: 19 Message: 19

http://www.n5oom.org/2004_wild_ride/hsmm/index.htm

20. Re: 802.11x survey tools

Yahoo group: DAWG-HSMM
Date: 2004-03-30 00:06:01 UTC
From: J. Beadles
Topic: 10 Message: 20

```
--- In ntms-hsmm@yahoogroups.com, "Chris Ward" <WD5CW@c...> wrote:
> Were was the link for the cable the link radio and the tiny trak3
>
> Thanks
```

Chris,

Link for the Tiny Trak is http://www.tinytrak.com. I'm not sure what cable and link radio you are asking about.

21. WEP hints from KC5QHH

Yahoo group: DAWG-HSMM
Date: 2004-03-31 20:31:51 UTC
From: J. Beadles
Topic: 21 Message: 21

Randy Dunning, KC5QHH sent this in...

Hello John,

Over the weekend I activated WEP on my home 802.11b Wlan. In the process of this wrestling match with WEP Grendel I discovered a problem and a solution that others may profit from. The setup was as follows:

WAP - Belkin 802.11b Wireless Cable/DSL Gateway Router (Part # F5D6231-4)
PC Card - SMC 2532W-B EliteConnect 200 milliWatt 802.11b

Print Server - D-Link DP-311P Wireless Print Server

The problem is that once WEP was activated the Belkin router failed to allow configuration through the web interface over the air (expected if there were problems) AND over wireline (very weird since wire is not supposed to be effected by WEP). So I hard reset the router and tried again. No success. I then hard reset it and turned it off for 24 hours. It then came back up with no problems. Apparently it takes a long time for the Belkin router to assume room temperature.

Every attempt at entering WEP via the ASCII string translation was a dismal failure and required a rather lengthy process to get the Print Server back to WEP off mode. I noticed that the documentation for the Belkin indicated that it was compliant with a "Draft" WEP standard rather than the actual standard. So, the final solution was to use the Belkin interface to enter an ASCII string that I wanted to use as my WEP key. I then copied down the HEX equivalent and added that into my other devices. This worked and the whole network came up. So when ASCII entry fails, try HEX as a last resort.

One other observation: Lose the Belkin Router! The antenna array is not removable and the unit is a tad flakey. Its days are numbered...

Cheers,

RD

22. Re: [ntms-hsmm] Digest Number 9

Yahoo group: DAWG-HSMM
Date: 2004-04-01 16:59:45 UTC
From: Joe - N5PYK
Topic: 22 Message: 22

Just a reminder...if you have antennas to test, the April NTMS meeting is at
Kent Britain's house where we'll have an antenna range and test equipment.
Its Sunday, April 4th starting around 1230,1pm.

Will be at the callbook address of WA5VJB

73,
Joe

23. NTMS Antenna and Tune-up Party

Yahoo group: DAWG-HSMM
Date: 2004-05-03 00:35:48 UTC
From: Douglas Kilgore
Topic: 23 Message: 23

Attn: HSMMers and Wild Ride hams

This Sunday, Apr. 4 at 1:00 PM is the NTMS Antenna and Tune-up Party at WA5VJB Kent Britain's house in Grand Prairie. Look up his QTH on map at www.qrz.com.

Kent is the Antenna columnist for CQ-VHF magazine. He really knows his stuff about antennas and is willing to assist a ham to get every last db of gain from their antennas.

Directions:
Exit I-20 at Great Southwest Parkway
Take I-20 Eastbound access road about 1 mile to Mathew St.
Right turn on Mathew to Vineyard (3rd street)
Left turn on Vineyard and look for antennas on north side of street

This is an excellent time to check out your external 802.11b antennas and measure how much actual gain you get from them. Get them ready for the Wild Ride.

I'll be driving from Richardson if someone wants to carpool.

Doug Kilgore KD5OUG

24. Wild Ride HSMM Meetings

Yahoo group: DAWG-HSMM
Date: 2004-04-05 03:47:49 UTC
From: Douglas Kilgore
Topic: 24 Message: 24

Wow! We sure had a good turnout for the NTMS Antenna Tuneup Party held at Kent Britain's house. HSMMers were there in force. Testing their antennas were Joe Jurecka N5PYK, John Beadles N5OOM, Ric Martin N5NHI, Bob Kmak K5WO, Doug Kilgore KD5OUG and Bill Miller K2CHP.

It's time to complete the initial planning for HSMM 802.11b coverage of the upcoming Wild Ride bike rally. All ham volunteers that are providing HSMM service or equipment need to get together. Therefore.....

Wed Apr 7 6:30pm Detailed Planning down to the last connector
Doug Kilgore's house
1317 Glen Cove Richardson 972-231-8539
We'll take up a collection to buy pizza so PLEASE RSVP

Tue Apr 13 6:30pm Equipment testing
Location to be determined

Tue Apr 20 7:00pm Monthly meeting of NTMS-HSMM

Testing and installation of equipment as required

Wed May 5 Final briefing and pickup T-shirts - all ham volunteers
Location to be determined

Sat May 8 Bike Rally - pray for good weather

25. Note to n5oom

Yahoo group: DAWG-HSMM
Date: 2004-04-05 13:27:49 UTC
From: ricmartin2000
Topic: 25 Message: 25

John,

What email address do you want me to send the books to?

ric

26. Camera mounts at Altex

Yahoo group: DAWG-HSMM
Date: 2004-04-05 21:08:25 UTC
From: J. Beadles
Topic: 26 Message: 26

If anybody is planning on putting up a webcam for the Wild Ride event, Altex Electronics has outdoor camera housings and mounts. There's one off Midway in Addison.

http://www.altex.com/index.php?cPath=24_33_138

27. Patch Antenna

Yahoo group: DAWG-HSMM
Date: 2004-04-05 19:10:24 UTC
From: Joe - N5PYK
Topic: 27 Message: 27

Hi,
Did any one of ya'll happen to pick up my patch antenna at the meeting yesterday. I left it when I departed Kent's place. Kent seemed to think somebody took it with them...but didn't know who.
Joe

28. 04 Wild Ride - Wiley Stadium Bridge

Yahoo group: DAWG-HSMM
Date: 2004-04-06 02:01:54 UTC
From: J. Beadles
Topic: 28 Message: 28

All,

It appears that we're going to be able to put a relay station on the press box of Wiley High School Stadium. This hardware will consist of one client bridge pointing back at the Nortel tower, and an access point facing out towards rest stop 2 & 3.

System pics at: http://www.n5oom.org/2004_wild_ride/hsmm/index.htm

Ric furnished one pallete, and I have the bridge part of the system put together. Total cost out of pocket, $2. I screwed a piece of 2"x4" with a Linksys mounting bracket on the pallette, went to the dollar store and got a couple of white dishpans. The dishpan fits over the access point and will be screwed down when we're ready to deploy. Cut a piece of 1-1/4" conduit for a mast. Left it a little long for if we wanted to put a yagi for an APRS relay digi on it.

http://www.n5oom.org/2004_wild_ride/photos/wiley_stadium_bridge/

Next task is to put together a second one for the access point facing out to the east. The two APs will be separated to minimize adjacent channel interference issues, and will be connected together with CAT-5 network cable.

29. Re: [ntms-hsmm] Wild Ride HSMM Meetings

Yahoo group: DAWG-HSMM
Date: 2004-04-06 12:34:40 UTC
From: Bob and Debbie Kmak
Topic: 24 Message: 29

Doug,

I'll be there.

Bob

----- Original Message -----
From: "Douglas Kilgore" <douglas.kilgore@...>
To: "HSMM Group" <ntms-hsmm@yahoogroups.com>; <kd5oug@...>;
<beadles@...>; <tony@...>; <k5baw@...>;
<mark.durbin@...>; <kd5mno@...>; <kd5tqi@...>;
<k2chp2000@...>; <vhoski@...>; <vhoski@...>;
<kd5zkv@...>; <k5ld@...>; <w5azn@...>;
<kd5bad@...>; <velda@...>; <stan535@...>;
<kd5rym@...>; <gene@...>; <TPRUTZ@...>; "Larry Essary"
<larry@...>; "Udo Ludwig" <udo@...>
Sent: Sunday, April 04, 2004 10:47 PM
Subject: [ntms-hsmm] Wild Ride HSMM Meetings

> Wow! We sure had a good turnout for the NTMS Antenna Tuneup Party held
> at Kent Britain's house. HSMMers were there in force. Testing their
> antennas were Joe Jurecka N5PYK, John Beadles N5OOM, Ric Martin N5NHI,
> Bob Kmak K5WO, Doug Kilgore KD5OUG and Bill Miller K2CHP.
>
> It's time to complete the initial planning for HSMM 802.11b coverage of
> the upcoming Wild Ride bike rally. All ham volunteers that are
> providing HSMM service or equipment need to get together.
> Therefore.....
>
> Wed Apr 7 6:30pm Detailed Planning down to the last connector
> Doug Kilgore's house
> 1317 Glen Cove Richardson 972-231-8539
> We'll take up a collection to buy pizza so PLEASE RSVP
>
> Tue Apr 13 6:30pm Equipment testing
> Location to be determined
>
> Tue Apr 20 7:00pm Monthly meeting of NTMS-HSMM
>
> Testing and installation of equipment as required
>
> Wed May 5 Final briefing and pickup T-shirts - all ham volunteers
> Location to be determined
>
> Sat May 8 Bike Rally - pray for good weather
>

>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

30. Change of Location for Monthly NTMS-HSMM Meeting

Yahoo group: DAWG-HSMM
Date: 2004-04-06 20:25:07 UTC
From: Douglas Kilgore
Topic: 30 Message: 30

The North Texas Microwave Society - High Speed MultiMedia (NTMS-HSMM) group will now hold it's monthly meeting on 3rd Tuesday 6:30pm at Chuck's Hamburgers, 502 Spanish Village Shopping Center, Dallas, TX. This is the NW corner of Coit and Arapaho in North Dallas. In addition to delicious old-fashioned hamburgers, the menu has various sandwiches and salads. Come early and enjoy the food.

The next monthly meeting is Tuesday, Apr. 20, 2004. This is the place to bring those nagging questions about 802.11 and other high speed data formats at 900Mhz and above.

Subscribe to our Yahoo group at http://groups.yahoo.com/group/ntms-hsmm/

Doug Kilgore KD5OUG
kd5oug@...
Ph 972-231-8539.

31. 10 GHZ Sprint

Yahoo group: DAWG-HSMM
Date: 2004-04-06 21:31:54 UTC
From: Joe - N5PYK
Topic: 31 Message: 31

Hi all HSMMers.

I'd like to double make sure all of you are aware that the NTMS is holding their annual 10 GHZ Spring Sprint on Saturday, April 24th. I realize that most of you don't have 10 GHz gear, but what we can offer is the opportunity to pair you up with someone who does, do a little roving, make some microwave contacts and get some hand-on experience with setting up links.

We'll probably start off in the North Dallas area where communications can be assured to check that the rigs are working and frequencies are correct. Then, rovers will travel to other parts of the area and make contacts between as many stations as popular. You'll really get a feel for how to point dishes, how to figure out how to aim the right way and where to aim!

I'd really recommend tagging along for this event...it will be experience that will really come in handy with our HSMM work.

If you'd like to be paired up with an experienced 10 GHz Rover, just send me an email to jurecka@...

Details and rules about the contest are available at www.ntms.org

Joe

32. 2004 TAPR Digital BASH at Dayton, May 14th

Yahoo group: DAWG-HSMM
Date: 2004-04-07 03:18:51 UTC
From: kr1zan
Topic: 32 Message: 32

The following from John Ackermann N8UR <jra@...>, relayed by
KR1ZAN

Announcing the 2004 TAPR Digital BASH!

What?
An event for the digitally-inclined ham, featuring:
* Buffet dinner
* Keynote Address: "Open Source in the Real World" by John
Ackermann, N8UR
* Informal "Birds of a Feather" gatherings
* Door Prizes!

When?
Friday evening, May 14, 2004
Doors open at 7:00 pm; dinner served at 7:30 pm
Speaker, meetings, and door prizes after dinner

Where?
Kohler's Banquet Center, 4548 Presidential Way, Kettering
(39 40.75N, 84 08.43W). From downtown Dayton, take Main Street,
which becomes
Far Hills Ave., south to David Road, then east to Presidential
Way. Turn south
on Presidential Way. Kohler's is on the left about 1/4 mile
south. Maps
available on the TAPR web site (http://www.tapr.org/tapr/dayton,
follow the
link at the bottom of the page), or at the TAPR booth.

How?
Dinner requires advance registration and payment through TAPR.
Tickets will be available at the TAPR booth on Friday, though
we strongly encourage registration <before> Hamvention. The
cost is $28.00 per person, tax and tip included.

All amateurs are welcome to attend, enjoy the speaker, and
participate in the meetings, although only those purchasing a
dinner can eat.

To register, contact:
Digital BASH
c/o TAPR
8987-309 E. Tanque Verde Road #337
Tucson, AZ 85749-9399
Phone: 972-671-TAPR (8277)

Fax: 972-671-8716
Internet: tapr@...

Visa/Mastercard Accepted

Who?
PACK*BASH is co-sponsored by TAPR -- Tucson Amateur Packet Radio, the national leader in digital communication -- and the Miami Valley FM Association, Dayton's packet radio club.

For more information (including maps), go to
http://www.tapr.org/tapr/dayton,
or send email to tapr@....

33. Equipment update

Yahoo group: DAWG-HSMM
Date: 2004-04-09 13:56:41 UTC
From: William Miller
Topic: 30 Message: 33

Update equipmentwise on my end is the 24db grid antenna is done being rebuilt & ready for service,I got the Sony Digital Handycam configured Thursday night and am now testing it on NetMeeting,Yahoo and AOL IM.

I'm going to need a couple antenna adapter/pigtail cables for the AP and webcam end,is anyone making these cables locally or do we have to purchase them from FAB or Hyperlink?

73's BILL K2CHP

[Non-text portions of this message have been removed]

34. Re: Equipment update

Yahoo group: DAWG-HSMM
Date: 2004-04-10 05:36:34 UTC
From: J. Beadles
Topic: 30 Message: 34

--- In ntms-hsmm@yahoogroups.com, William Miller <k2chp2000@s...>
wrote:
> Update equipmentwise on my end is the 24db grid antenna is done
being rebuilt & ready for service,I got the Sony Digital Handycam
configured Thursday night and am now testing it on NetMeeting,Yahoo
and AOL IM.
>
> I'm going to need a couple antenna adapter/pigtail cables for the
AP and webcam end,is anyone making these cables locally or do we have
to purchase them from FAB or Hyperlink?

I got crimpers to crimp the RP-TNC and N connectors on LMR240. I've
made up a few, but still mess up a connector occasionally.

FYI, I'm planning on going out Sunday and attempting to bridge my
Wap11 to the tower AP. I'm working it out now, but it's not going
well.

35. weekend 04 Wild Ride test activites

Yahoo group: DAWG-HSMM
Date: 2004-04-12 03:56:17 UTC
From: J. Beadles
Topic: 35 Message: 35

```
Did some experimenting with client bridging over the weekend. Also
did some diagnostic work on this D-Link DCS-1000W wireless camera.

The client bridge experiment consisted of:

1. 1x Linksys WAP11 v2.8
a. IP aqddress 192.168.1.15
b. Physically connected to the BEFW11S4
c. Client bridged to the WRT54G

2. 1x Linksys BEFW11S4
a. IP address 192.168.1.1
b. DHCP server turned on
c. Wireless service turned off
d. Internet connection connected to the WAN port

3. 1x Linksys WRT54G
a. IP address 192.168.1.2
b. DHCP server turned off
c. No internet connection
d. Used only as a wireless AP

4. 1x Linksys WAP11 v2.6
a. Broke while attempting client bridging
b. No longer responds to pings
c. Hardware reset produces no response

5. 1x D-Link DCS-1000W Camera
a. IP address 192.168.1.30
b. Attempted FTP xfer of pics
c. Video works, but FTP doesn't

Network configuration looks like this:

Laptop (orinoco card) <- - - - - -> WRT54G
|
WAP11(v2.8) <- - - - - - - - - - - - -
|
BEFW11S4 ---(wired connection)--- DCS100W Camera
|
(internet)

Result:

1. Laptop wired to the BEFW11S4
a. Can ping all nodes
b. Can access the camera
```

c. Can access the internet

2. Laptop connected to the WRT54G via 802.11b
a. Can ping the WRT54G and the BEFW11S4
b. Cannot ping the WAP11 or the DCS-1000W
c. Can access the internet
d. Cannot access the camera or the wap11 admin page

Anybody have a clue what is going on here?

Also, I made extensive attempts to get the camera to FTP frames to my web server but was unable to do so. I resorted to putting a packet sniffer on the connection and was able to observer the camera attempting to ftp pics, but seemingly failing to do so. Manually ftping a file to the server resorted in a very different packet trace. However, I don't have the knowledge to take this any farther. Anybody want to give it crack?

36. Wednesday 4/14 HSMM Testing for Wild Ride

Yahoo group: DAWG-HSMM
Date: 2004-04-14 02:32:10 UTC
From: Douglas Kilgore
Topic: 36 Message: 36

Attn: HSMMers working Wild Ride bike rally

> John-Thomas Beadles wrote:
>
> We repointed the AP back out toward Wiley. For Wednesday's work
> session, let's meet at the park at the end of Lookout. To get to the
> park from the south, take Plano Road north from Campbell. Turn Left
> on Lookout.
>
> To get to the park from the north, take Plano Road south from Renner.
> Turn right on Lookout.
>
> Lookout is just south of the Owens plant. Lookout will deadend and
> the park is on the right side of the dead end. Park under the trees
> on the west side of the parking lot - that's where we'll have a view
> of the NT5NT access point. Talk-in frequency 147.12 or 443.325 PL 110.9
>
> NT5NT access point notes:
> In order to simplify our work, we have renamed the access point ssid
> to "NT5NT" and changed the IP to 192.168.1.2 We'll attempt to set up
> a DHCP server to feed addresses to persons connecting to the AP.
>
>

37. Re: [ntms-hsmm] Wednesday 4/14 HSMM Testing for Wild Ride

Yahoo group: DAWG-HSMM
Date: 2004-04-14 04:41:10 UTC
From: Douglas Kilgore
Topic: 36 Message: 37

Oops! Meeting time is 6:30pm. That will give you time to get off work,
eat and pick up your equipment.

Doug

Douglas Kilgore wrote:
>
> Attn: HSMMers working Wild Ride bike rally
>
> > John-Thomas Beadles wrote:
> >
> > We repointed the AP back out toward Wiley. For Wednesday's work
> > session, let's meet at the park at the end of Lookout. To get to the
> > park from the south, take Plano Road north from Campbell. Turn Left
> > on Lookout.
> >
> > To get to the park from the north, take Plano Road south from Renner.
> > Turn right on Lookout.
> >
> > Lookout is just south of the Owens plant. Lookout will deadend and
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> > of the NT5NT access point. Talk-in frequency 147.12 or 443.325 PL 110.9
> >
> > NT5NT access point notes:
> > In order to simplify our work, we have renamed the access point ssid
> > to "NT5NT" and changed the IP to 192.168.1.2 We'll attempt to set up
> > a DHCP server to feed addresses to persons connecting to the AP.
> >
> >
>
>
>
> Yahoo! Groups Links
>
>
>
>

38. New file uploaded to ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2004-04-14 15:51:30 UTC
From: ntms-hsmm@yahoogroups.com
Topic: 38 Message: 38

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the ntms-hsmm
group.

File : /AP-test.pdf
Uploaded by : n5pyk <n5pyk@...>
Description : Updated the HSMM participant list with New IP Block 192.168.1.X For testing
tonight, please ensure that you are using the new range!

You can access this file at the URL

http://groups.yahoo.com/group/ntms-hsmm/files/AP-test.pdf

To learn more about file sharing for your group, please visit

http://help.yahoo.com/help/us/groups/files

Regards,

n5pyk <n5pyk@...>
```

39. New FCC NPRs

Yahoo group: DAWG-HSMM
Date: 2004-04-16 21:51:07 UTC
From: J. Beadles
Topic: 39 Message: 39

Forwarded...

Among the changes to Part 97 proposed today by the FCC is the inclusion of the 6 Meter, 2 Meter and 222 bands for Spread spectrum operations. The FCC is also proposing to permit Auxilary Operations above 144.500 MHz except in the Space Comms segment from 145.8 - 146.0.

The FCC Notice of Proposed Rule Making, on the web at, http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-04-79A1.doc, in WT Docket 04-140, is available on the FCC Web site.

73 de Paul-NA4AR

40. Wednesday night testing session results

Yahoo group: DAWG-HSMM
Date: 2004-04-16 21:59:17 UTC
From: J. Beadles
Topic: 40 Message: 40

On Wednesday April 14th, we performed a test session against the NT5NT access point. The NT5NT AP is a repackaged Linksys WAP11 v2.6 connected to a 16db panel antenna facing Wiley. The AP is on the roof of the 16 story Nortel building NNE of the intersection of Campbell Road and Central Expressway in Richardson. The testing party was run at the park at the east end of Lookout Road, east of Plano Road.

During the test, we had 4 clients connected through the tower AP.

1. Two were laptops (KD5OUG, N5OOM) at the park. One was equipped with a 24 db grid antenna, the other with an 8dB yagi.
2. One was a laptop (N5PYK) at Lake Lavon (15.75 miles) with a parabolic dish fed from a home made patch, gain estimated at 24 dB).
3. One was a client bridged WAP11 physically connected to a BEFW11S4 (radio turned off, DHCP on) and a Dlink DCS-100W internet camera. The bridge radio was connected to a 14dB yagi.

All stations were able to ping each other and run Microsoft Netmeeting. I suspect that the connection to Lavon was slow based on the distance, and there did seem to be some substantial delay and maybe packet loss. Still working out how to diagnose these problems.

41. 04 Wild Ride update

Yahoo group: DAWG-HSMM
Date: 2004-04-16 22:03:35 UTC
From: J. Beadles
Topic: 41 Message: 41

All,

KD5OUG has been notified that we will not have access to the roof of the Wiley H.S. Stadium. Therefore, we have one 25 mi hop we will have to make from the NT5NT AP to Community H.S. near Josephine. Joe, I think we'll have to arrange a testing session for this one. I'm thinking we probably ought to work it out so that one of us can adjust the NT5NT antenna for max signal while the other is on site.

42. RE: [ntms-hsmm] 04 Wild Ride update

Yahoo group: DAWG-HSMM
Date: 2004-04-16 23:01:13 UTC
From: Anthony 'Tony' Campbell
Topic: 41 Message: 42

I have a nice 3 ft diameter solid dish with feed that you could use if you think it will help. It should have a little more gain than the BBQ grill antennas.

Tony
-----Original Message-----
From: J. Beadles [mailto:n5oom@...]
Sent: Friday, April 16, 2004 5:04 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] 04 Wild Ride update

All,

KD5OUG has been notified that we will not have access to the roof of the Wiley H.S. Stadium. Therefore, we have one 25 mi hop we will have to make from the NT5NT AP to Community H.S. near Josephine. Joe, I think we'll have to arrange a testing session for this one. I'm thinking we probably ought to work it out so that one of us can adjust the NT5NT antenna for max signal while the other is on site.

--
Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/

b.. To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

43. IMS 2004 Fort worth

Yahoo group: DAWG-HSMM
Date: 2004-04-18 01:59:09 UTC
From: William Miller
Topic: 40 Message: 43

I ran across this event coming up in Fort Worth in June and am curious if our group has an interest for attendance to this type of event event?

http://www.ims2004.org/

BILL K2CHP

"J. Beadles" <n5oom@...> wrote:
On Wednesday April 14th, we performed a test session against the NT5NT access point. The NT5NT AP is a repackaged Linksys WAP11 v2.6 connected to a 16db panel antenna facing Wiley. The AP is on the roof of the 16 story Nortel building NNE of the intersection of Campbell Road and Central Expressway in Richardson. The testing party was run at the park at the east end of Lookout Road, east of Plano Road.

During the test, we had 4 clients connected through the tower AP.

1. Two were laptops (KD5OUG, N5OOM) at the park. One was equipped with a 24 db grid antenna, the other with an 8dB yagi.
2. One was a laptop (N5PYK) at Lake Lavon (15.75 miles) with a parabolic dish fed from a home made patch, gain estimated at 24 dB).
3. One was a client bridged WAP11 physically connected to a BEFW11S4 (radio turned off, DHCP on) and a Dlink DCS-100W internet camera. The bridge radio was connected to a 14dB yagi.

All stations were able to ping each other and run Microsoft Netmeeting. I suspect that the connection to Lavon was slow based on the distance, and there did seem to be some substantial delay and maybe packet loss. Still working out how to diagnose these problems.

Yahoo! Groups Links

To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/

To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

44. Another Cable/Connector Supplier Link

Yahoo group: DAWG-HSMM
Date: 2004-04-18 03:06:09 UTC
From: William Miller
Topic: 40 Message: 44

I ran across this retailer of cable and connectors on the web,dunno if their priced right but thought it would be another resource for gear we use.

http://allrfcables.com/

BILL K2CHP

[Non-text portions of this message have been removed]

45. Dinner at Monthly Meeting Tue. Apr 20

Yahoo group: DAWG-HSMM
Date: 2004-04-19 05:38:11 UTC
From: Douglas Kilgore
Topic: 45 Message: 45

The monthly meeting of the North Texas Microwave Society - High Speed MultiMedia group will be held Tues. Apr. 20 6:30pm at Chuck's Hamburgers, 502 Spanish Village Shopping Center, Dallas. This is the NorthWest corner of Coit Road and Arapaho in Dallas.

The meeting is in the private meeting room. Please come early and buy your dinner from the delicious menu at Chuck's. Talk-in on 443.325 PL 110.9 and 147.12.

HSMM plans for 802.11b coverage of the May 8 Wild Ride bike rally will be discussed and results of testing will be provided.

Equipment choices and future activities will be discussed.

Doug Kilgore KD5OUG

46. Urgent - Tower Climber Needed for Access Point

Yahoo group: DAWG-HSMM
Date: 2004-04-20 05:19:21 UTC
From: Douglas Kilgore
Topic: 46 Message: 46

Someone with tower climbing equipment is needed to climb a 60ft tower to check an 802.11b amplifier mounted on the tower.

Larry Essary WA5WWH, owner of Pulse.Net has offered to connect us to the internet for the May 8 Wild Ride bike rally. However we need to get the model number off of the tower-mounted amplifier before we can order some needed parts to feed power up the coax.

If you know of someone with the tower climbing capability, please reply immediately by email. We need to get this done before this Friday, Apr 23.

Doug Kilgore KD5OUG
Ph 972-231-8539

47. TX WiFi Hotspots

Yahoo group: DAWG-HSMM
Date: 2004-04-20 13:31:00 UTC
From: Joe - N5PYK
Topic: 47 Message: 47

Somehow, I just know ya'll would be interested in this list.
Joe

From: Lester, Eric [RICH2:J433:EXCH]
Sent: Monday, April 19, 2004 5:27 PM
Subject: FW: Free WLAN Hotspots in TX
Importance: Low

FYI. Happened to run across this while doing some research. ...Free Wireless Internet Hotspots for the state of Texas below. Just in case you're interested. Not sure how complete the list is, but it's a start. (If you've already seen the list, sorry for the duplicate info.)

There is also more info at this site too: <http://auscillate.com/wireless/> This is a good place to go for Austin, DFW, Houston, and San Antonio among some other big cities.

Regs,
Eric

Texas
Addison
Dunn Bros Coffee - 3725 Belt Line Rd
Allen
Coffee Dreams - 1314 West McDermott - Suite 140
Amarillo
Schlotzsky's Deli - 1619 Kentucky, Ste 1350
Schlotzsky's Deli - 3440 Bell St., Ste 322
Arlington
Coffee Haus - 314 Lincoln Sq - (817) 795-6238
Coffee Haus Downtown - 210 South Mesquite St. - 817-795-5790
Cup-O-Joe - 1714 W Randol Mill Rd.- (817) 277-3800
Austin
The Schlotzsky's Deli Cool Cloud provides free Wi-Fi in Austin at multiple locations.
B.D. Riley's Pub - 204 E 6th St
BookPeople - 603 N. Lamar
Lovejoys Tap Room & Brewery - 604 Neches Street
Opal Divine's Freehouse - 700 West 6th Street
Resistencia Book Store - 1801 South 1st Street
Ruta Maya Coffee Co. - 3601 S. Congress Ste.D-200
Ventana Del Soul Cultural Center & Coffee House - 1834 East Oltorf
Texas French Bread - South Congress - 1722 South Congress Avenue
Texas French Bread - West Campus - 2900 Rio Grande Street

Texas French Bread - East Campus - 3213 Red River Street
Triumph Cafe - 3808 Spicewood Springs Road
Cain and Abel's Bar and Grille - 2313 Rio Grande St.
Texas Picnic Company and Bakery - 605 Sabine St.
Mozart's Coffee Roasters - 3825 Lake Austin Blvd.
Crown and Anchor Pub - 2911 San Jacinto - (512) 322-9168
Draught House - 4112 Medical Parkway
Crimson Restaurant - 407 Colorado St.
Changos - 3023 Guadalupe St
Changos - 3005 S. Lamar Blvd
Flight Path - 51st and Duval
La Tazza Fresca - 37th and Guadalupe
Spiderhouse - 2908 Fruth St.
Manuel's Downtown - 310 Congress Avenue
Manuel's Great Hills - 10201 Jollyville Rd.
Quack's 43rd St. Bakery - 411 E. 43rd St.
Guero's Taco Bar - 1412 S. Congress Ave. - 447-7688 Aussie's - 306 Barton Springs Rd - (512) 474-2255
CiCi's Pizza #71 - free with purchase of all-you-can-eat buffet - 5365 I-35 N - 512-453-4488
Antonio's Tex Mex - Central - 7522 North I H 35
Antonio's Tex Mex - Jollyville - 11835 Jollyville Road
Capitol Grill - 1400 Congress Avenue
Seattle's Best Coffee - 5th@ Lamar
Seattle's Best Coffee - Windsor & Exposition
Seattle's Best Coffee - Parmer & I-35
Seattle's Best Coffee - Parmer & 620
Econo Lodge - lobby and restaurant and some rooms - request WEP key at desk - 6201 US 290 East and I 35 - 512-458-4759
Austin Public Library system
Bastrop
Schlotzsky's Deli - 492 State Highway 71 W - 512-332-2867
Beaumont
Zydeco Technologies - 3311 Calder - 409.832.8559
Boerne
The Daily Grind - 143 South Main - 830-249-4677
Cedar Park
Much Ado About Coffee - 1420 Cypress Creek RD, Suite 300 - 512-257-7318
Railyard Grill - 601 E Whitestone Blvd # 200 - 512-259-7575
Childress
Kettle Restaurant - 1902 Ave F NW - 940-937-8496
College Station
Dudley's Draw - 311 University Drive
Schlotzsky's Deli - 107 South College Ave.
Schlotzsky's Deli - 2210 Harvey Mitchell Parkway South
McAlister's Deli - 1006 University East Ave
Conroe
Panera Bread - 1302 West Davis Street - (936) 788-2898
Corpus Christi
Bioya Internet Cafe - 4535 South Padre Island Drive, Suite 5 - (361)

855-5888
Dallas
Nubar Coffee Shop - 3225 Turtle Creek Blvd.
Omni Mandalay Hotel at Las Colinas - 221 East Las Colinas Boulevard
Crossroads Market - Bookstore and Cafe - 3930 Cedar Springs Road
Ten Food & Beverage - 3414 Milton Ave. - (214) 692-8955
Holiday Inn Select - Dallas Love Field - 3300 W. Mockingbird Ln - (214) 357-8500
Kwik Kar Lube & Tune on Greenville - 6424 Greenville Ave. - 214.696.5454
Best Western Market Center - free to guests - Also free in the Las Palmas
Tex Mex restaurant - 2023 Market Center Blvd.
Calypso Flavor - 11722 Marsh Lane #202 - 214 351-2201
Fallout - 835 Exposition
Talenti - 3314 Knox Street - (214) 526-3600
Standard & Pours Coffee & Stocks - 1409 S. Lamar - (Basement of Historic Sears Building) - 214.565.0383
TwoRows Restaurant and Brewery - 5500 Greenville Ave.Suite 1300 - 214-696-2739
Embassy Suites Dallas Galleria - 14021 Noel Road - (972) 364-3640
Residence Inn Dallas Market Center - 6950 N Stemmons Fwy - (214) 631-2472
Denton
Best Western Inn and Suites - in room access for guests - 2910 W. University Dr.
Eagle Pass
Holiday Inn Express - 2007 Loop 431
El Paso
Cappetto's Italian Restaurant - 2716 Montana Ave.
Butterfield Trail Industrial Park - vicinity of 19 Butterfield Trail
Fort Worth
Billy Miner's Saloon - Sundance Square
Coffee Haus - 1401 Jones Street - (817)338-4287
Frisco
Smoothie Zone @ Natural Health Market - 4971 Preston Rd.
Crescent City Restaurant - 8549 Gaylord Parkway #103 - 214-387-4308
Garland
QQ Cafe - must purchase something to get WEP key - 3575 W. Walnut St. - 972-205-9889
Coffee Haus - 620 Main Street - 972-485-1461
Georgetown
Cianfrani Coffee Company - 715 Main Street
Grapevine
Heavenly Ham Gourmet Deli - 304 S. Park Blvd., Suite 100 - 817-329-2012
Fellowship Church - 2450 Hwy 121 N. - 972-471-5700
Harlingen
Ramada Limited - 4401 S EXP 83 - 956-425-1333
Hillsboro
Holiday Inn Express - in room access for guests - 1505 Hillview Dr.
Best Western - Hillsboro Inn - 307 I-35 W. Service Road - 254-582-8465
Hockley
Magnolia Country RV Park - 23815 Nichols Sawmill Rd - 281.356.7592

Houston
Kaveh Kanes Coffeeshop - 912 Prairie St
Dairy Queen - 14322 State Highway 249
LOBO Bookshop and Cafe - 3939-S Montrose Boulevard - (713) 522-5156
Hollywood Book Cafe - 2409 Grant - 713.523.8855
Diedricks Coffee - Westhiemer and Hazard
Caf? at the J - 5601 S. Braeswood
Stag's Head Pub - 2128 Portsmouth - 713-533-1199
Schlotzsky's Deli - 4902 San Felipe Street
Panera Bread - 12220 FM 1960 West - (281) 469-5623
Panera Bread - 13704 Northwest Freeway - (713) 934-9201
Panera Bread - 22521 Tomball Parkway - (281) 257-6300
Cafe Artiste - 1601 W Main
Coffee Oasis - 1606 Clear Lake City Boulevard - 281-488-8333
Chili's Restaurant - 6121 Westheimer
Sheraton Suites - all guest suites and public areas for guests - 2400 West Loop South - 713-586-2444
Harris County Public Libraries - 25 branches
Huntsville
Kaldi's Coffee House - 1627 Sam Houston Ave. - 936-436-0451
Schlotzsky's Deli - 130 Col. Etheridge Blvd - (936) 293-1900
Irving
Cool River Cafe - 1045 Hidden Ridge Road - 972-871-8881
Ugly Mug Coffee - 2435 Kinwest Parkway - (972)443-3323
Comfort Inn - 4940 W. Airport Freeway
Comfort Suites - 4700 W. John Carpenter Freeway
Millennium Center - First Floor Caf? - Suite 1650 - 222 West Las Colinas Blvd.
Univ. of Phoenix - 1707 Market Place Blvd.
Katy
I-Cafe - 22026 Westheimer Pkwy - 281-579-2700
Kerrville
Buck Horn RV Resort - Interstate 10, Exit 501 - (800) 568-6458
Quiet Valley Ranch Campground and RV Park - 3876 Medina Hwy 16 S - 830/257-3600
Lakeway
Mulligans - 900 RR 620 S #B103 - 512-263-3305
League City
Java Express - 1026 East Main St - 281-332-9444
Lubbock
Day Break Coffee Roasters - 4406-C 19th Street (19th and Quaker)
Day Break Coffee Roasters - 4210 82nd Street (Kingsgate Shopping Center)
McAllen
McAllen-Miller International Airport - main lobby, restaurant and the boarding gate areas - 2500 So Bicentennial - 956-682-9101

Mineral Wells
Best Western Inn and Suites - in room access for guests - 4410 Hwy. 180 East
Mt. Pleasant
Best Western Mt. Pleasant Inn - rooms and lobby, for guests - 102 E. Burton

Rd.
Nacogdoches
Java Jack's Coffee Shop - 1122 North St.
Pasadena
Panera Bread - 5855 Fairmont Parkway - (281) 991-8111
Plano
Best Western - 640 Park East Boulevard
Main Street Bread Baking Co. - 7200 Bishop Rd. Suite D11 (in The Shops at Legacy) - 972-309- 0404
Java & Cha Co. - 1820 Coit Road - 972-519-8445
Paciugo Gelato - 2301 Preston Road # 2301A - (972)612-1333
Pflugerville
Bobee Coffe Shop - 1466 Grand Avenue Parkway
Red Oak
Oaks Fellowship Church - coffee shop area - 777 I-35E
Richardson
Fuzion Lounge Espresso & Bubble Tea - 581 W. Campbell Rd. -
Rockwall
Holiday Inn Express - 996 IH 30 East
Round Rock
Schlotzsky's Deli - La Frontera
Common Grounds Coffeehouse - 3720 Gattis School Road @ Forrest Creek
Antonio's Tex Mex - 16912 North I H 35
RPM Indoor Raceway - 2400 S I-H 35 (Exit 251) - 512.255.2552
San Angelo
Baker Street Coffee House - 3502 Knickerbocker Rd - 325-949-7064
San Antonio
San Antonio Market Square - "El Mercado de San Antonio" - between W. Commerce Street and Dolorosa
Seattle Cinnamon - 13111 San Pedro Blvd. (Bitters & 281), Ste 103 - 210.545.4354
Seattle Cinnamon - opening Feb. 2, 2004 -500 Navarro Street @ College St. intersection
Radisson Hotel - all rooms and common areas - 1111 N.E. Loop 410 - 210-828-9031
San Marcos
Mochas & Javas Coffeeshop - 700 North LBJ, Ste 103A - (512) 396-5282
Mochas & Javas Coffeeshop - 102 Wonder World Drive, Suite 406
Canyon Trail RV Resort - 6050 IH 35 South - (512) 805-9988
Sherman
Dickeys BBQ - 529 E. Lamar - 903-870-2083
Subway/Baskin-Robbins - S.W. corner of Hwy 75 & Hwy 82 - 903-892-1847
Cellerman's American Pub - 2130 Texoma Parkway - (903) 813-0994
Sugarland
Schlotzsky's Deli - 15287 SW Freeway
Panera Bread - 1928 Highway 6 - (281) 242-7323
Tyler
Rick's - 104 W. Erwin - 903-531-2415
Best Western Inn & Suites - guests only - 2828 WNW Loop 323
Van Horn

Van Horn KOA Campground - Interstate 10, Exit 140A - (800) 562-0798
Waco
McAlister's Deli - 812 S. 6th Street
Weatherford
Comfort Suites - in room access for guests - 210 Alford Dr.
Hampton Inn - in room access for guests - 2524 S. Main St.

48. Re: Another Cable/Connector Supplier Link

Yahoo group: DAWG-HSMM
Date: 2004-04-20 14:28:06 UTC
From: J. Beadles
Topic: 40 Message: 48

--- In ntms-hsmm@yahoogroups.com, William Miller <k2chp2000@s...>
wrote:
>
> I ran across this retailer of cable and connectors on the web,dunno
if their priced right but thought it would be another resource for
gear we use.
>
> http://allrfcables.com/

Looked at them quickly and some of them are pretty good. Good find!

49. RE: [ntms-hsmm] Digest Number 20

Yahoo group: DAWG-HSMM
Date: 2004-04-20 15:42:55 UTC
From: Randall Dunning
Topic: 49 Message: 49

BILL - K2CHP wrote:

> I ran across this retailer of cable and connectors
> on the web,dunno if their priced right but thought
> it would be another resource for gear we use.
>
> http://allrfcables.com/

Well, I took the plunge and ordered two MMCX(rp) to SMA-M pigtails from these folks. They will make up custom cables for the same price as their standard offerings (!) There price structure is this:

$14.95 per cable (custom or otherwise_
$6.00 shipping for the first cable
$0.50 shipping for each additional cable

They take PayPal and their email address is available on their web page. They have no order server at this time. I will let the group know when I get my cables and try them with my SMC Elite 200 milliWatt 802.11b card.

73,

RD - KC5QHH

[Non-text portions of this message have been removed]

50. And another connector cable Link

Yahoo group: DAWG-HSMM
Date: 2004-04-20 16:04:27 UTC
From: William Miller
Topic: 50 Message: 50

Was doing a lookup for more N,RP-TNC,MMCX connector sources and ran across "RF Connectors" they have detailed photos and information with moderate pricing.

http://www.rfparts.com/connectors.html#Reverse

BILL K2CHP

[Non-text portions of this message have been removed]

51. Re: [ntms-hsmm] Urgent - Tower Climber Needed for Access Point

Yahoo group: DAWG-HSMM
Date: 2004-04-20 16:11:43 UTC
From: William Miller
Topic: 46 Message: 51

I shot Ron "KD5OYK" from PARK an email if he would be available for this short notice climb this week,he may know of another tower climber that would be available.

BILL K2CHP

Douglas Kilgore <douglas.kilgore@...> wrote:
Someone with tower climbing equipment is needed to climb a 60ft tower to check an 802.11b amplifier mounted on the tower.

Larry Essary WA5WWH, owner of Pulse.Net has offered to connect us to the internet for the May 8 Wild Ride bike rally. However we need to get the model number off of the tower-mounted amplifier before we can order some needed parts to feed power up the coax.

If you know of someone with the tower climbing capability, please reply immediately by email. We need to get this done before this Friday, Apr 23.

Doug Kilgore KD5OUG
Ph 972-231-8539

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[Non-text portions of this message have been removed]

52. SMC card connector?

Yahoo group: DAWG-HSMM
Date: 2004-04-22 15:34:05 UTC
From: J. Beadles
Topic: 52 Message: 52

Doug, did you say that this new SMC high power card used a reverse MMCX connector?

53. Saturday Wild Ride prep activites

Yahoo group: DAWG-HSMM
Date: 2004-04-22 15:38:39 UTC
From: J. Beadles
Topic: 53 Message: 53

Joe Jurecka, N5PYK is going to be up on the Nortel tower Saturday for the 10GHz contest. So, now is a particularly good time to go out to Wild Ride rest top 3 in Josephine to verify connectivity and to make sure the NT5NT AP antenna is pointed as accurately as possible.

If anybody wants to run up with me just yell and I'll coordinate. Joe will be up there from 8am, so I'm figuring on getting out there around 10am or so. I'm expecting to line up the antennas using my 24db bbq antenna and my orinoco card and client bridging using the WAP11 we had set up at Lookout park.

Tony, you got your dish antenna handy? this might be a good time to try it out.

54. K2CHP - Senao card fcc id?

Yahoo group: DAWG-HSMM
Date: 2004-04-22 15:40:23 UTC
From: J. Beadles
Topic: 54 Message: 54

Bill,

Sorry I forgot to get with you at the meeting - can you send me the FCC ID off your senao card? Does that card use standard MMCX connectors?

55. Proxim Harmony 802.11a access points

Yahoo group: DAWG-HSMM
Date: 2004-04-22 15:59:09 UTC
From: J. Beadles
Topic: 55 Message: 55

I'm seeing a bunch of surplussed Proxim Harmony 5ghz access points going dirt cheap on ebay. I got two for a grand total of $15. These units appear to have a complicating factor which is that they require a hardware AP controller to work.

Still, because of the low price, I'm seeing some experimentation on turning these into bridge radios.
http://socalfreenet.org/80211arelay

56. Wild Ride webcams

Yahoo group: DAWG-HSMM
Date: 2004-04-22 16:08:51 UTC
From: J. Beadles
Topic: 56 Message: 56

Boy, I'm just full of posts today...

Whilst looking through eBay, I ran across a bunch of Play, Inc. Snappy 3.0 units for about $8 after shipping. These units are really good video frame grabbers. You plug a camera (camcorder?) in one side, and plug the whole unit on a PC parallel port. The device grabs really good quality video frames in up to very large sizes.

This'd possibly be a good option if you have a camcorder for the Wild Ride but no webcam. I used it with a freeware software product that grabbed frames on a timed basis and ftp'd them to a server. Worked well, but can't remember the name.

The company appears to be out of business, but drivers are available at:
http://www.video-drivers.com/drivers/77/77998.htm

57. Re: [ntms-hsmm] SMC card connector?

Yahoo group: DAWG-HSMM
Date: 2004-04-22 16:51:40 UTC
From: Douglas Kilgore
Topic: 52 Message: 57

Yes. I have two of the RP-MMCX to N Male pigtails. I bought my card
and pigtails from FAB-Corp. See attached message.

Doug

"J. Beadles" wrote:
>
> Doug, did you say that this new SMC high power card used a reverse
> MMCX connector?
>

[Non-text portions of this message have been removed]

58. Re: [ntms-hsmm] Saturday Wild Ride prep activites

Yahoo group: DAWG-HSMM
Date: 2004-04-22 17:12:29 UTC
From: Douglas Kilgore
Topic: 53 Message: 58

I will be going out there also. I have my stuff loaded into my Suburban so I will drive out. For testing I have the Ultimate speaker stand which will go up to about 10 feet. I'd prefer to use it at another location on May 8.

I will also bring a 30ft push-up antenna mast with guy wires and stakes. If we mount the access point on the mast, we would need cabling to bring up power up to it - or - I have a 25ft RG214 Coax with Male N-connectors on each end.

I have several pieces of 5/8 inch plywood from another project. One could be used to mount the wire dish on one side and the Linksys access points on the opposite side. This could be mounted up on the mast. If necessary we could use a 12VDC to 110VAC inverter and run an extension cord up to the equipment on the mast.

Doug

"J. Beadles" wrote:
>
> Joe Jurecka, N5PYK is going to be up on the Nortel tower Saturday for
> the 10GHz contest. So, now is a particularly good time to go out to
> Wild Ride rest top 3 in Josephine to verify connectivity and to make
> sure the NT5NT AP antenna is pointed as accurately as possible.
>
> If anybody wants to run up with me just yell and I'll coordinate.
> Joe will be up there from 8am, so I'm figuring on getting out there
> around 10am or so. I'm expecting to line up the antennas using my
> 24db bbq antenna and my orinoco card and client bridging using the
> WAP11 we had set up at Lookout park.
>
> Tony, you got your dish antenna handy? this might be a good time to
> try it out.
>

59. Re: [ntms-hsmm] K2CHP - Senao card fcc id?

Yahoo group: DAWG-HSMM
Date: 2004-04-22 18:53:59 UTC
From: William Miller
Topic: 54 Message: 59

John I shot you an email with the FCC ID for the Senao and Yes it takes the standard MMCX connector.

BILL K2CHP

"J. Beadles" <n5oom@...> wrote:
Bill,

Sorry I forgot to get with you at the meeting - can you send me the
FCC ID off your senao card? Does that card use standard MMCX
connectors?

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[Non-text portions of this message have been removed]

60. Link to RWK Wild Ride page

Yahoo group: DAWG-HSMM
Date: 2004-04-22 20:08:15 UTC
From: Douglas Kilgore
Topic: 60 Message: 60

This is a link to the Richardson Wireless Klub's web page which will have all of the realtime pictures of the May 8 Wild Ride bike rally:

http://www.k5rwk.org/wildride.html

This link may be published. Bookmark it.

Doug Kilgore KD5OUG
Richardson Wireless Klub

61. Re: [ntms-hsmm] Saturday Wild Ride prep activites

Yahoo group: DAWG-HSMM
Date: 2004-04-22 21:11:30 UTC
From: Douglas Kilgore
Topic: 53 Message: 61

I just talked with the Asst. Superintendent of the Community ISD. The area on school district property we want to use will be busy this Saturday, Apr. 24 from 10:00am to 2:00pm. There is some type of luncheon. We can't have access to that area then. There'll be traffic to contend with.

I think we should still plan to go on Saturday AM but earlier and then plan to use the parking lot of the pizza shop just north accross the road from the school property. It's still on the ridge and may even be a better place than the school district property.

Doug

"J. Beadles" wrote:
>
> Joe Jurecka, N5PYK is going to be up on the Nortel tower Saturday for
> the 10GHz contest. So, now is a particularly good time to go out to
> Wild Ride rest top 3 in Josephine to verify connectivity and to make
> sure the NT5NT AP antenna is pointed as accurately as possible.
>
> If anybody wants to run up with me just yell and I'll coordinate.
> Joe will be up there from 8am, so I'm figuring on getting out there
> around 10am or so. I'm expecting to line up the antennas using my
> 24db bbq antenna and my orinoco card and client bridging using the
> WAP11 we had set up at Lookout park.
>
> Tony, you got your dish antenna handy? this might be a good time to
> try it out.
>

62. Re: Saturday Wild Ride prep activites

Yahoo group: DAWG-HSMM
Date: 2004-04-23 23:18:08 UTC
From: J. Beadles
Topic: 53 Message: 62

Received. I have to make a Tanners run when they open - I'd like to get to Tanners about 9:30 and make it out to Josephine after that. Bill, you interested in Tanners? If so, could you make it over to my place by 9:00?

I'm not sure what time this puts Bill and I out in the Josephine area. Doug, shall we coordinate by phone after we get done with Tanners?

--- In ntms-hsmm@yahoogroups.com, Douglas Kilgore
<douglas.kilgore@c...> wrote:
> I will be going out there also. I have my stuff loaded into my
Suburban
> so I will drive out. For testing I have the Ultimate speaker stand
> which will go up to about 10 feet. I'd prefer to use it at another
> location on May 8.
>
> I will also bring a 30ft push-up antenna mast with guy wires and
> stakes. If we mount the access point on the mast, we would need
cabling
> to bring up power up to it - or - I have a 25ft RG214 Coax with Male
> N-connectors on each end.
>
> I have several pieces of 5/8 inch plywood from another project. One
> could be used to mount the wire dish on one side and the Linksys
access
> points on the opposite side. This could be mounted up on the
mast. If
> necessary we could use a 12VDC to 110VAC inverter and run an
extension
> cord up to the equipment on the mast.
>
>
> Doug

63. Re: K2CHP - Senao card fcc id?

Yahoo group: DAWG-HSMM
Date: 2004-04-23 23:19:37 UTC
From: J. Beadles
Topic: 54 Message: 63

Received. Thanks!

--- In ntms-hsmm@yahoogroups.com, William Miller <k2chp2000@s...>
wrote:
> John I shot you an email with the FCC ID for the Senao and Yes it
takes the standard MMCX connector.
>
> BILL K2CHP
>
> "J. Beadles" <n5oom@a...> wrote:
> Bill,
>
> Sorry I forgot to get with you at the meeting - can you send me the
> FCC ID off your senao card? Does that card use standard MMCX
> connectors?
>
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>
> [Non-text portions of this message have been removed]

64. Re: [ntms-hsmm] Re: Saturday Wild Ride prep activites

Yahoo group: DAWG-HSMM
Date: 2004-04-24 00:43:30 UTC
From: William Miller K2CHP
Topic: 53 Message: 64

John, I'll be by your place at 0900 for the run over Tanners then out to Josephine for link testing. Hopefully the heaviest of the rain occurs overnight.

William Miller K2CHP
Richardson Texas

[Non-text portions of this message have been removed]

65. Just getting started

Yahoo group: DAWG-HSMM
Date: 2004-04-24 00:55:35 UTC
From: signup
Topic: 65 Message: 65

Anyone available to provide me with some information and help me get started on the right path the right way with building a HSMM site(s).

Lee - K1NT
www.k1nt.com

[Non-text portions of this message have been removed]

66. Re: Just getting started

Yahoo group: DAWG-HSMM
Date: 2004-04-24 13:55:50 UTC
From: J. Beadles
Topic: 65 Message: 66

Lee,

Sure! Hang out for a bit, I don't have time to do a writeup just
now, but will get back to you shortly.

--- In ntms-hsmm@yahoogroups.com, "signup" <signup@h...> wrote:
> Anyone available to provide me with some information and help me
get started on the right path the right way with building a HSMM site
(s).
>
> Lee - K1NT
> www.k1nt.com

67. 802.11b 25 mile link established

Yahoo group: DAWG-HSMM
Date: 2004-04-26 06:14:27 UTC
From: Douglas Kilgore
Topic: 67 Message: 67

Last Saturday, Apr. 24 a 25 mile 802.11b link was made between KD5OUG at Nevada community school and N5PYK at the Nortel building in Richardson. A MS NetMeeting connection was made for two way chat. The link was made with the Linksys WAP-11 on Nortel with 16 db antenna and 200mw SMC2532W-B card and 21 db barbeque grill dish at Nevada.

The link was established at 1Mbps but the connection was itermittent. There were trees on the path. After a better antenna site with direct line-of-sight to Nortel was found about 100 yards away from the first location, the Nortel WAP11 locked up so further testing couldn't be done.

N5OOM, K2CHP, KD5YVL AND KD5WIN were also at school location.

While not a complete success, the afternoon was very encouraging. A connection to the internet with sufficient speed to FTP still photos taken by web cams should be possible.

Doug Kilgore

68. Wild Ride 802.11b Testing Night Tue. Apr. 27

Yahoo group: DAWG-HSMM
Date: 2004-04-26 06:16:59 UTC
From: Douglas Kilgore
Topic: 68 Message: 68

A testing night for all 802.11b equipment to be used on the Wild Ride will be held Tue. Apr. 27 at 6:45pm. The location is the parking lot of the Bush Turnpike Station of DART rail where it crosses under 190. The parking lot is just south of the new Fry's store in Plano.

Doug Kilgore KD5OUG

69. Mast diameter?

Yahoo group: DAWG-HSMM
Date: 2004-04-26 14:14:00 UTC
From: William Miller K2CHP
Topic: 53 Message: 69

John,what's the diameter of the electrical conduit/mast you're utilizing?

William Miller K2CHP
Richardson Texas

[Non-text portions of this message have been removed]

70. Re: Mast diameter?

Yahoo group: DAWG-HSMM
Date: 2004-04-27 13:09:21 UTC
From: J. Beadles
Topic: 53 Message: 70

--- In ntms-hsmm@yahoogroups.com, William Miller K2CHP
<k2chp2000@s...> wrote:
> John,what's the diameter of the electrical conduit/mast you're
utilizing?

That mast was galvanized conduit, 1-1/4". The 2" clamps on the BBQ
grill antennas won't clamp down on a 1" mast. Problem with it is
that you can't get more than 1 section out of it. I'm considering
some military mast sections like W5ADC used at the SET last week.

71. Re: 802.11b 25 mile link established

Yahoo group: DAWG-HSMM
Date: 2004-04-27 13:13:55 UTC
From: J. Beadles
Topic: 67 Message: 71

--- In ntms-hsmm@yahoogroups.com, Douglas Kilgore
<douglas.kilgore@c...> wrote:
> Last Saturday, Apr. 24 a 25 mile 802.11b link was made between
KD5OUG at
> Nevada community school and N5PYK at the Nortel building in
Richardson.
> A MS NetMeeting connection was made for two way chat. The link was
made
> with the Linksys WAP-11 on Nortel with 16 db antenna and 200mw
> SMC2532W-B card and 21 db barbeque grill dish at Nevada.
>
> The link was established at 1Mbps but the connection was
itermittent.
> There were trees on the path. After a better antenna site with
direct
> line-of-sight to Nortel was found about 100 yards away from the
first
> location, the Nortel WAP11 locked up so further testing couldn't be
> done.
>
> N5OOM, K2CHP, KD5YVL AND KD5WIN were also at school location.
>
> While not a complete success, the afternoon was very encouraging. A
> connection to the internet with sufficient speed to FTP still photos
> taken by web cams should be possible.

After the test in Nevada, K2CHP, KD5YVL, KD5WIN and I moved to
Lavonia Park, 15.75 mi from the AP. We were able to get in
immediately with the client card, so we set the bridge back up. We
were able to get the bridge to work after adjusting the antenna for
elevation (it had been pointing downward). We were able to get into
the management page, so I'm thinking that the NT5NT AP was fine. I'm
thinking you might have had some exotic technical issue keeping you
from getting in. I wish we'd had you bring your whole laptop over to
the playground area.

72. 10 GHZ Sprint

Yahoo group: DAWG-HSMM
Date: 2004-04-27 16:00:24 UTC
From: Joe - N5PYK
Topic: 31 Message: 72

Rain only enhances microwave experience.

I woke up Saturday morning at 630AM to the sound of rain hitting the roof. A quick look of the radar indicated that there was no hurry to get up to Nortel as the rain would be continuing for several more hours. Alas, went back to sleep for another two hours. By 10AM, I had arrived at Nortel. Several stations were already chatting on 144.300. It certainly took a bit longer to get on the air than I expected being the only person there, but once things were operational, it was ON. First contact was with NM5M over about 10 miles west of Nortel. It was substantially a no brainer. The next QSO was substantially more exciting. While the rain was a downer early on, it made the 192 mile rainscatter QSO with K5LLL near Bastrop really easy. Signals were found in less than a minute. The showers that we used were not terribly intense (40dBz or so) but provided plenty of signal. The next contact was a tad tricker. Bill, W5GVE was down in EL19kw (yes the rare EL19 grid). Ended up aiming further east to make this contact as the most intense precipitation was over Robertson County (north of College Station.) After that, I continued for another hour making contacts with the locals WA5TKU, WA5VJB, and WW2R before a shower forced me to shut down operations at Nortel. Fortunately, Nortel had an 802.11 wireless lan that covered the roof so I was always able to have the radar display active.

A few of the 802.11 group came by and we did a little fine pointing of the 802.11 antenna in support for the Wild Ride on May 8th which further extended the best DX to 25 miles.

After a bit, it become evident that the showers would continue on and off throughout the day and I elected to move north to my residence. Worked WW2R and NM5M again, and finally worked K5SZJ from near the Allen outlet mall. After that, Eric took off toward Frisco and we made another contact via 800' tower scatter.

Around 7pm, after the contest had ended, additional contacts were made between WW2R, N5PYK, and K5LLL from EM13qd, EM13qe, and EM10kf respectively via some moderate thunderstorms in the Killeen area. The N5PYK setup was very simplistic. Put 10GHz setup in the doorway of the shack, aimed over the house across the street, through the trees, and still hit the rain strong enough for the QSO. Moral is, even if you don't have a great site, rainscatter makes everything much easier. VUCC is easily obtainable at nearly any location..you just have to coordinate with other stations when it rains.

Overall, a great bit of fun. You just never know how rewarding and neat the 10 GHZ band is until you get on the air!

Joe

73. Activity report for Tuesday, April 27

Yahoo group: DAWG-HSMM
Date: 2004-04-28 13:13:52 UTC
From: J. Beadles
Topic: 73 Message: 73

Members of the group met in the Dart rail parking area at 190 and Renner road for the purpose of continuing testing the bridge setup for the Wild Ride on May 8.

One difficulty is that the NT5NT AP, located on top of the 250 ft Nortel tower bldg, is that the AP is pointed at Wiley and the selected location is about 90 degrees off boresight of the antenna. At this distance this was not believed to be disabling, and KD5OUG was apparently able to establish connection using his SMC high power card from the location. Neither, N5OOM's laptop using an Orinoco card nor the bridge setup were able to connect to NT5NT. A search with Netstumbler showed no signal from the tower.

Wow, good pattern on that antenna! The bridge was relocated to Lookout Park. N5OOM's Orinoco card was able to establish a link with NT5NT with abt -65dbm signal. However, the bridge was still unable to connect, which is odd since the bridge was able to connect from 15 mi away on saturday. After some testing, KD5OUG was called to relocate to Lookout Park. Some time after KD5OUG shut down, the bridge successfully connected through for traffic outbound from the bridge. When KD5OUG turned his SMC card back on, the bridge link was lost again.

There seems to be circumstantial evidence that the SMC card interferes with the client bridge setup that we are using. Both the Orinoco and SMC cards were apparently able to connect with the NT5NT AP, were able to ping the unit and raise the management web page, but were unable to pass traffic to each other. The lack of a bridge admin page on the WAP11 AP makes it very difficult to determine what the bridge is seeing.

The unreliability of the bridge hardware would indicate that it is unwise to install the bridge at the Lake Lavon Army Corps of Engineers tower until further testing is done.

74. Free network analysis tool

Yahoo group: DAWG-HSMM
Date: 2004-04-28 18:56:24 UTC
From: J. Beadles
Topic: 74 Message: 74

Ixia Qcheck may help in some of our testing...
http://www.ixiacom.com/products/performance_applications/pa_display.ph
p?skey=pa_q_check.

75. home wireless question.

Yahoo group: DAWG-HSMM
Date: 2004-04-30 01:41:35 UTC
From: Jerry Karlovich
Topic: 75 Message: 75

I just installed a 802.11b wireless in my home. I have the WEP configured for privacy. I renamed my SSID as "wireless". The card in my machine is a Linksys WMP11 PCI. I also added a 7.0 DBi external antenna because my machine sits on the floor. I run XP Home.

Somewhere else in my neighborhood is an open router SSID of "linksys". The signal to this router is "low". My signal from my router is "very good".

OK, here's my problem. My computer by itself will automatically switch over to the "linksys" connection after I choose my "wireless" connection. Every so often a little flag will appear down in the lower right corner where the wireless icon is located indicating that the connection is to "linksys" and the signal is low. I will click on the "available wireless connections" and reselect my wireless router. Only after a while I notice I'm back on the "linksys" connection.

I'm very new to this stuff so be gentle. How can I prevent my machine from by itself switching from my very good "wireless" connection back to the lower signal "linksys" connection?

Jerry KD5OM

76. Re: home wireless question.

Yahoo group: DAWG-HSMM
Date: 2004-04-30 14:17:03 UTC
From: J. Beadles
Topic: 75 Message: 76

```
--- In ntms-hsmm@yahoogroups.com, "Jerry Karlovich" <kd5om@k...>
>
> OK, here's my problem. My computer by itself will automatically
> switch over to the "linksys" connection after I choose
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> connection. Every so often a little flag will appear down in the
> lower right corner where the wireless icon is located indicating
> that the connection is to "linksys" and the signal is low. I will
> click on the "available wireless connections" and reselect my
> wireless router. Only after a while I notice I'm back on
> the "linksys" connection.

I don't have XP myself, but I have been doing some reading. What I
found suggests that XP allows you to manage wireless connections two
ways. One way is through the utilities supplied with the card and
the other is to let an XP utility do it. If XP does it, it scans
around changing channels constantly. So, I suppose the key is to not
let XP do that.

Again, I don't have XP, so can't verify for certain.
```

77. Re: [ntms-hsmm] Re: home wireless question.

Yahoo group: DAWG-HSMM
Date: 2004-04-30 14:40:52 UTC
From: Jerry - KD5OM
Topic: 75 Message: 77

Yesterday I, in an unrelated situation, edited my desktop html file found in my wallpapers folder. I added a <img scr> to WFAA's radar loop images. I also inserted a 180 second refresh meta tag in the <head> to keep the images up to date. The very act of the every 3 minute refresh "tickles" the connection and Mr. Chips (my pet name for my computer) hasn't over a 12 hour period changed connections. Although the other connection "linksys" is still there. I guess if I don't click on a link or something over a period of time, XP goes a wondering. I was beginning to think that maybe it's alphabetical? Sounds silly but "linksys" always appears on the top of the list before "wireless". I was going to change my SSID to "kd5om" since K is before L and see if that solved the problem. Maybe I will this weekend. Kd5om will appear before "linksys" in the line up of available connections. I will let you know what happens.

Jerry KD5OM

********** REPLY SEPARATOR **********

On 4/30/04 at 2:17 PM J. Beadles wrote:

--- In ntms-hsmm@yahoogroups.com, "Jerry Karlovich" <kd5om@k...>
>
> OK, here's my problem. My computer by itself will automatically
> switch over to the "linksys" connection after I choose
my "wireless"
> connection. Every so often a little flag will appear down in the
> lower right corner where the wireless icon is located indicating
> that the connection is to "linksys" and the signal is low. I will
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> the "linksys" connection.

I don't have XP myself, but I have been doing some reading. What I found suggests that XP allows you to manage wireless connections two ways. One way is through the utilities supplied with the card and the other is to let an XP utility do it. If XP does it, it scans around changing channels constantly. So, I suppose the key is to not let XP do that.

Again, I don't have XP, so can't verify for certain.

Yahoo! Groups Links

78. Re: home wireless question.

Yahoo group: DAWG-HSMM
Date: 2004-04-30 15:37:40 UTC
From: John McAuley
Topic: 75 Message: 78

Jerry, try this:
Find the Wireless Network Connection icon in the notification area of the taskbar (a tooltip pop-up balloon should appear to help you, if active). Right-click the icon an then left click "View Available Wireless networks".

First, highlight the "Linksys" SSID on the "available wireless networks" list, and then make sure that the check-box labeled "Allow me to connect to the selected wireless network, even though it is not secure" is unchecked for the "linksys" SSID.

Click the "Advanced" button at the lower left of the Wireless Network Connection dialog. You should be at "Wireless Network Connection Properties". There you will see lists of available and preferred networks. Highlight "linksys" on the preferred list and click the "Remove" button below the list.

Now, click on the "Advanced" button at the lower right of the same wireless network connection properties dialog. Make sure "Automatically connect to non-preferred networks" is unchecked, and close the Advanced dialog.

Click OK to save your changes and close the "Wireless Network Connection Properties" dialog.

Now right-click the Wireless Network Connection notification icon and select "View Available Wireless Networks" again. You should not see "Linksys" on the "Available wireless networks" list. If you do, you may have to go back into properties, and make sure that your WAP's SSID is at the top of the preferred list, by highlighting it and then clicking "Move up". This has never happened to me, but I'm trying to be comprehensive here...

Hope this helps and I hope my step-by-step approach wasn't annoying.
73
John K5JBM

--- In ntms-hsmm@yahoogroups.com, "Jerry Karlovich" <kd5om@k...>
wrote:
> I just installed a 802.11b wireless in my home. I have the WEP
> configured for privacy. I renamed my SSID as "wireless". The card
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> my machine is a Linksys WMP11 PCI. I also added a 7.0 DBi external
> antenna because my machine sits on the floor. I run XP Home.
>
> Somewhere else in my neighborhood is an open router SSID
> of "linksys". The signal to this router is "low". My signal from

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> router is "very good".
>
> OK, here's my problem. My computer by itself will automatically
> switch over to the "linksys" connection after I choose
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> connection. Every so often a little flag will appear down in the
> lower right corner where the wireless icon is located indicating
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> wireless router. Only after a while I notice I'm back on
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>
> I'm very new to this stuff so be gentle. How can I prevent my
> machine from by itself switching from my very good "wireless"
> connection back to the lower signal "linksys" connection?
>
> Jerry KD5OM

79. Re: [ntms-hsmm] Re: home wireless question.

Yahoo group: DAWG-HSMM
Date: 2004-04-30 15:47:42 UTC
From: Tom Bresee
Topic: 75 Message: 79

This shows some of the actual screen shots on how to do it:
http://www.microsoft.com/technet/community/columns/cableguy/cg1102.mspx

I had this exact same problem, but i WILL say that it also helps
to make sure you always have a pretty strong signal to your laptop
(you may need to move your AP to an ideal location).

Tom Bresee
Raytheon
972 205 5451

--- John McAuley <localboy@...> wrote:
> Jerry, try this:
> Find the Wireless Network Connection icon in the notification area
> of the taskbar (a tooltip pop-up balloon should appear to help you,
> if active). Right-click the icon an then left click "View Available
> Wireless networks".
>
> First, highlight the "Linksys" SSID on the "available wireless
> networks" list, and then make sure that the check-box labeled "Allow
> me to connect to the selected wireless network, even though it is
> not secure" is unchecked for the "linksys" SSID.
>
> Click the "Advanced" button at the lower left of the Wireless
> Network Connection dialog. You should be at "Wireless Network
> Connection Properties". There you will see lists of available and
> preferred networks. Highlight "linksys" on the preferred list and
> click the "Remove" button below the list.
>
> Now, click on the "Advanced" button at the lower right of the same
> wireless network connection properties dialog. Make
> sure "Automatically connect to non-preferred networks" is unchecked,
> and close the Advanced dialog.
>
> Click OK to save your changes and close the "Wireless Network
> Connection Properties" dialog.
>
> Now right-click the Wireless Network Connection notification icon
> and select "View Available Wireless Networks" again. You should not
> see "Linksys" on the "Available wireless networks" list. If you do,
> you may have to go back into properties, and make sure that your
> WAP's SSID is at the top of the preferred list, by highlighting it
> and then clicking "Move up". This has never happened to me, but I'm
> trying to be comprehensive here...
>
> Hope this helps and I hope my step-by-step approach wasn't annoying.

> 73
> John K5JBM
>
>
> --- In ntms-hsmm@yahoogroups.com, "Jerry Karlovich" <kd5om@k...>
> wrote:
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> > configured for privacy. I renamed my SSID as "wireless". The card
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> > my machine is a Linksys WMP11 PCI. I also added a 7.0 DBi external
> > antenna because my machine sits on the floor. I run XP Home.
> >
> > Somewhere else in my neighborhood is an open router SSID
> > of "linksys". The signal to this router is "low". My signal from
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> > connection. Every so often a little flag will appear down in the
> > lower right corner where the wireless icon is located indicating
> > that the connection is to "linksys" and the signal is low. I will
> > click on the "available wireless connections" and reselect my
> > wireless router. Only after a while I notice I'm back on
> > the "linksys" connection.
> >
> > I'm very new to this stuff so be gentle. How can I prevent my
> > machine from by itself switching from my very good "wireless"
> > connection back to the lower signal "linksys" connection?
> >
> > Jerry KD5OM
>
>

80. Problems seem solved...

Yahoo group: DAWG-HSMM
Date: 2004-05-03 03:20:08 UTC
From: Jerry Karlovich
Topic: 80 Message: 80

Tnx to John, John and Tom for your suggestions on my home wireless problem. I was able to maintain connection to my router all weekend. I renamed my SSID as kd5om.

Any suggestions on high gain antennas for my router? I plan on setting my router on the top shelf of my book case, run a wire through the ceiling to a high gain antenna in the attic. Maybe even above the roof. I figure at 2.4 GHz line loss is astronomical! Even with the expensive hard line. I have seen many 12 to 16 DBi antennas on various web sites for under $40.00 (directional). Does anybody have any better ideas?

Do we exchange QSL cards if you can hear my router? At 2.4 GHz what is considered DX?

Jerry KD5OM

81. Re: [ntms-hsmm] Problems seem solved...

Yahoo group: DAWG-HSMM
Date: 2004-05-03 04:16:12 UTC
From: William Miller K2CHP
Topic: 80 Message: 81

Jerry,for all around the home/property use I'd go with a performance omni-directional personally but I'd mount it at the mid point level of your home that you'll be going wireless with that way you'll be in the optimum window of the vertical beamwidth for all the floors/levels with your access cards.
If you're using a Linksys wireless router for your home network,upgrading the lil stock 2db antennas to the 5.5 db aftermarket Onmis could be an easy option.I've read positive feedback on the replacement 5.5's and there's no coax to run.
I'm sure John N5OOM will chime in as well on this subject :-)

http://www.fab-corp.com/index.htm

William Miller K2CHP
Richardson Texas

[Non-text portions of this message have been removed]

82. Good News for Wild Ride HSMM + Monday Testing

Yahoo group: DAWG-HSMM
Date: 2004-05-03 16:12:34 UTC
From: Douglas Kilgore
Topic: 82 Message: 82

Good news for the Wild Ride HSMM effort.

N5PYK and KD5OUG tested again from Lookout park Sunday. After a quick chat with Linksys tech support, Joe was able to get everything talking in a controlled manner. The backbone of our Wild Ride network is taking shape.

The Nortel WAP11 configuration was changed to be a Wireless Bridge with Point to MultiPoint on channel 3.

At Lookout another WAP11 was configured as Wireless Bridge Point to MultiPoint Channel 3 to talk back to Nortel. The Lookout WAP11 was connected by Cat-5 ethernet cable to a BEFW11S4 wireless router set to channel 11 with a different SSID. A WSB24 Power Booster amplifier will be connected to the BEFW11S4 to give a greater coverage range at the rest stops. Each BEFW11S4 will be set up with MAC filtering.

All brands of 802.11b cards in laptops were able to associate with the BEFW11S4.

This configuration can be used at Rest Stop #2 and 3.

What we were unable to test Sunday was a connection to the Internet. KD5YVL has configured another WAP11 as a Wireless Bridge Point to MultiPoint and will be connecting it to the City of Richardson feed from Eisemann Center on Monday. That unit will associate with the Nortel WAP11 thereby providing internet access to Start/Finish, Rest stop #2 and #3. The CoR feed can be turned on and off remotely by KD5YVL. It will be turned on only during test times and during Wild Ride operations.

MONDAY NIGHT TESTING.
We need to test everything again with the internet connection. So we'll meet again at Lookout Park, 6:45pm. Talk-in 443.325 PL110.9 and 147.12. Bring everything that you are going to use on Saturday for a shakedown. Location: From corner of Plano Rd and Lookout, go east to the park. Turn right in parking lot and go to south end.

We need to make sure that Rest Stop #2 equipment works so that it can be mounted on the Corps of Engineers Tower at Lavon Dam as soon as possible. Considering weather and his work schedule, we want to allow KD5MNO greatest flexibility for scheduling the tower climbing.

A separate message will be sent covering equipment still needed at Rest Stops.

See you there.

Doug Kilgore KD5OUG

83. 04 Wild Ride HSMM Info

Yahoo group: DAWG-HSMM
Date: 2004-05-04 21:29:28 UTC
From: J. Beadles
Topic: 83 Message: 83

HSMM network info and APRS maps for the 04 Wild Ride available at:

http://www.n5oom.org/2004_wild_ride/

84. Future D/FW HSMM Ops

Yahoo group: DAWG-HSMM
Date: 2004-05-04 21:55:33 UTC
From: J. Beadles
Topic: 84 Message: 84

All,

Ok, so in the near future, we have:

June 12 - Collin Classic - this is one short 802.11b hop across McKinney HS so we can feed APRS internet data to the event logistics staff.

June 18, 19 - Hamcom - We have a large HSMM block of presentations planned. We need an external internet feed into the area, and it'd be really nifty if we could run a shot from the NT5NT AP to the Arlington convention center (abt 25 mi) so we could have a webcam shot or something as a demonstration target. Maybe demo IRLP links over HSMM or something. I'll have enough to do, it'd sure be nice if somebody else could drive this project.

September ?? - Plano Balloon Festival - Once again we want to have 802.11b coverage of the Plano Collin Community College area, complete with internet feed. But better, this year.

We now have 41 members, does anybody else have any projects they'd like to do? I'm interested in setting up a metropolitan area network to cover the D/FW region, and have heard others express this desire as well. Haven't heard anything definite about it though.

85. 04 Wild Ride - Status Report

Yahoo group: DAWG-HSMM
Date: 2004-05-06 09:25:04 UTC
From: J. Beadles
Topic: 85 Message: 85

Wednesday's task - put up two bridge radios and a webcam on the Army Corps of Engineers tower at Lake Lavon. Arrived at 7, on the tower at 7:30, off at 3am. Progress - got the east bound bridge up, antenna connected, webcam installed, power and ground ethernet cables connected. Was able to talk to both nodes over network cable.

Tomorrow's task - return to the site, install the westbound bridge and make both paths work. Also tune the webcam.

86. Re: [ntms-hsmm] 04 Wild Ride - Status Report

Yahoo group: DAWG-HSMM
Date: 2004-05-06 11:40:02 UTC
From: Bob and Debbie Kmak
Topic: 85 Message: 86

Wow! What troopers!

Thanks everybody for all your efforts which are way above and beyond the call.

73,

Bob K5WO

----- Original Message -----
From: "J. Beadles" <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Thursday, May 06, 2004 4:25 AM
Subject: [ntms-hsmm] 04 Wild Ride - Status Report

> Wednesday's task - put up two bridge radios and a webcam on the Army
> Corps of Engineers tower at Lake Lavon. Arrived at 7, on the tower
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> and make both paths work. Also tune the webcam.
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

87. Boy, he should see what we are doing with 802.11b

Yahoo group: DAWG-HSMM
Date: 2004-05-07 04:07:18 UTC
From: Douglas Kilgore
Topic: 87 Message: 87

http://www.dslreports.com/forum/remark,10167039~mode=flat

Doug KD5OUG

88. 04 Wild Ride - Thursday Status Report

Yahoo group: DAWG-HSMM
Date: 2004-05-07 06:07:09 UTC
From: J. Beadles
Topic: 88 Message: 88

Arrived on site at 6:30, climbed Lake Lavon Army CoE tower at 7:30, off at 11.

Confirmed east bound connection to RS-3 with a RSSL of -68 dBm, also tuned up webcam mounted on the tower.

Installed west bound bridge radio, antenna facing the NT5NT bridge. Could not establish connection with NT5NT, cause unknown. Placed radio in access point mode for testing.

To do:

1. Use antenna to look for the Army CoE bridge from NT5NT.

2. Complete internet connection from the Eisemann Center to NT5NT

89. Real Time WEB Cams for Special Event

Yahoo group: DAWG-HSMM
Date: 2004-05-07 09:31:54 UTC
From: Douglas Kilgore
Topic: 89 Message: 89

The Richardson Regional Med Center's Wild Ride bike rally starts at 8:00am CST Saturday May 8. Hams from several clubs are providing communications. Something new has been added to coverage.

Web cams are being placed at each of the rest stops and will upload pictures over the internet to the Richardson Wireless Klub web site every 30 seconds during the Saturday morning ride. Pictures can be viewed online during the bike ride at:
http://www.k5rwk.org/wildride.html

Hams from the North Texas Microwave Society's High Speed MultiMedia group have arranged a series of 802.11b bridges and access points on 2.4 Ghz to cover the 25 mile distance to the farthest rest stop. Fortunately the rest stops line up in almost a straight line from the 18 story Nortel building where members of the Nortel Amateur Radio Club have an 802.11b access point. More information about microwave and HSMM is available at the NTMS web site: http://www.ntms.org and http://groups.yahoo.com/group/ntms-hsmm/

Members of Dallas Amateur Radio Club are bringing the DARC Emergency Communications Van and will act as net control. Repeaters from the Texins ARC and Plano ARC and Nortel ARC are being used for voice communications. Several members of the Garland ARC are providing APRS trackers and vehicles can be observed on a route map on Findu.com.

Submitted by

Doug Kilgore KD5OUG
Ham Coordinator
kd5oug@...

90. 04 Wild Ride - Brief Report

Yahoo group: DAWG-HSMM
Date: 2004-05-10 03:16:04 UTC
From: J. Beadles
Topic: 90 Message: 90

I'll be writing up a longer post mortem later, but for now the brief report is that a major part of the network could not be made to work and could not be diagnosed in the time allotted. Some of the problems appeared to exist on the wired part of the network, but we'll have to work it out. Other parts worked fine, indicating that the concept is sound. One immediate lesson is that we need better diagnostic tools.

91. Wild Ride Web pages

Yahoo group: DAWG-HSMM
Date: 2004-05-10 07:00:12 UTC
From: Douglas Kilgore
Topic: 91 Message: 91

The published web page at http://www.k5rwk.org/wr/wildride.html was to be the main page off of which links to various pictures taken by web cams on the 2004 Wild Ride bike rally would be visable. The pages did not work properly on Saturday morning but two do now after the fact.

WEB CAMS
K2CHP's web cam at Northstar and Renner and KD5OUG's web cam at Rest Stop #1 were connected to the web with wireless access points into private DSL lines. K2CHP ran a Sony DV camcorder into a USB video capture unit on his laptop which had a Senao wireless card. The Senao card then linked to a wireless access point in K2CHP's nearby apartment. KD5OUG had a Sony Hi-8 movie camera connected to an X-10 USB Video Capture Adapter installed on his laptop. His SMC high power wireless card linked to an wireless access point installed in an office near rest stop #1. Both hams used shareware Active Webcam by Pysoft to grab individual still frames and upload them to the Richardson Wireless Klub's web site using FTP (File Transfer Protocol).

The web pages were created with an assumption regarding the numbering system of the camera images. Proper testing was not done to insure that in fact the numbering system worked as expected. The numbering system was different so pictures did not appear on the web pages. The filename of the saved images was expected to be cn0001.jpg, cn0002.jpg, etc. Instead the programs created the filename cn0001.jpg03, cn0001.jpg05, etc.

The links http://www.k5rwk.org/wr/north.html and http://www.k5rwk.org/wr/stop1.html now have a photo available for viewing.

More work needs to be done to understand the capabilities of the Active Webcam software and the process of uploading photos to the internet.

Web cams at the Start/Finish, Rest Stop #2 and Rest Stop #3 were not able to upload to the internet due the lack of a connection through the planned Nortel link. The camera perpared by KD5YDL and installed on the Corps of Engineers tower at 125 ft by KD5MNO was zoomed in and looked at the west end of the Lavon dam where riders past.

APRS
One page of the Wild Ride images was to be a route map on Findu.com displaying the location of SAG and supply vehicles. The software functioned properly however in the heat of battle trying to get the web cams operational, the proper data containing callsigns and tactical callsigns was not uploaded to the findu page. Next year it will be better.

We learned a lot working toward the goal of linking the rest stops with web cams to the internet. Just wait until next year.....

Doug Kilgore KD5OUG

92. K2CHP wireless link feedback/follow-up

Yahoo group: DAWG-HSMM
Date: 2004-05-10 15:45:04 UTC
From: BILL K2CHP
Topic: 91 Message: 92

Now that Doug and John have both posted their follow ups to the event I'll go ahead and post my additional feedback to the group as well.
My wireless internet link consisted of an Effecient Networks Speedstream 5100 Ethernet ADSL Modem running with 50' of CAT6 ethernet cable to a Linksys BEFW11S4 v.4 802.11b router located in my garage.The 11S4 then was then connected to a Maxrad 14db panel antenna with a 5' length of RG58 which was temporarily mounted just above the garage door outside with a clean view to the roadway about 1/3 mile away.

At the remote location I utilized a Toshiba Pentium 3 notebook with WinME(blech!) to which I went wireless using the Senao 200mw Wireless LAN PC Card connected to a Confier 24db directional Grid antenna fed by 25' of Andrew Heliax on top of a 10' length of mast aimed at the Access Point/Internet Gateway.
I was able to maintain a 497 kbps upload/5000 kbps download with a 45% link quality 40% signal strength for the during the 4 hours at Northstar.

With bandwidth door almost running at full capacity I was able to run multiple browsers including one from the K5RWK Wildride Webcams URL which I must say was done top notch,it was very helpful on my end as I could monitor what the Sony Digital 8 Handycam was uploading to the server via Active Webcam software and how I could make adjustments.

The webcam software I have to work with as some of the images appeared to be pixelized somewhat at the Wildride Webcam URL but the images came through regardless but I'd prefer them to be much much sharper for the next event if it takes equipment/software changes to do so.

Overall I was exceptionally pleased with my wireless equipment layout which could have not come together without the assitance of the NTMS/HSMM group!

William Miller K2CHP
Richardson Texas

[Non-text portions of this message have been removed]

93. Wild Ride

Yahoo group: DAWG-HSMM
Date: 2004-05-10 19:13:36 UTC
From: Joe - N5PYK
Topic: 93 Message: 93

Hi all,
Wanted to say thank you to all of you who contributed so much time and energy to the Wild Ride prep. While we didn't acheive all of our objectives (they were quite ambitious), we all learned some valuable information. I hope that everyone got a little something positive out of the experience. It was a team effort and without everyone's cooperation, we would not have had the successes that we did.

Joe - N5PYK

94. [Fwd: Wild Ride]

Yahoo group: DAWG-HSMM
Date: 2004-05-11 02:17:14 UTC
From: Douglas Kilgore
Topic: 94 Message: 94

Fellow hams - I'm passing along the Kudos I have received from the Richardson Regional Med Center Foundation board president regarding your efforts at the 2004 Wild Ride.

You support is greatly appreciated the hospital and by me.

Doug Kilgore KD5OUG
Wild Ride Ham Coordinator

[Non-text portions of this message have been removed]

95. Fwd: [aprssig] Re: Wireless LAN extension

Yahoo group: DAWG-HSMM
Date: 2004-05-11 12:51:04 UTC
From: N5TIM
Topic: 95 Message: 95

Little more.

```
>X-Originating-IP: [204.17.217.24]
>Date: Mon, 10 May 2004 10:49:46 -0700
>From: "Stephen H. Smith" <WA8LMF2@...>
>Subject: [aprssig] Re: Wireless LAN extension
>To: "TAPR APRS Special Interest Group" <aprssig@...>
>cc: "TAPR APRS Special Interest Group" <aprssig@...>
>X-AOL-IP: 216.165.236.57
>List-Unsubscribe: <mailto:leave-aprssig-34241I@...>
>List-Software: Lyris Server version 3.0
>List-Subscribe: <mailto:subscribe-aprssig@...>
>List-Owner: <mailto:owner-aprssig@...>
>Reply-To: "Stephen H. Smith" <WA8LMF2@...>
>X-Message-Id: <409FC0BA.8060003@...>
>Sender: bounce-aprssig-34241@...
>
>
>Robert Bruninga wrote on 5/10/2004, 8:04 AM:
>
> > What I need to know is what are the two antennas
> > on the back of a link-sys access point device for?
> > Is one TX and one RX, or are they both both and
> > only there for spatial diversity? Can I just make a feed
> > and plug in my 10 foot dish to one of them.
>
>RTFM The antennas can be configured as either diversity, one for TX
>and one for RX, or you can shut down one and use only the other for both
>TX and RX. It's all done in the configuration menu inside the unit that
>is accessed with a web browser; the devices have a mini "web site"
>(http: server) in their built-in firmware.
>
>Your biggest hassle will probably be the screwball reverse-polarity TNC
>or BNC connectors on the antenna ports. The standard-looking TNC panel
>jacks have a male contact in them instead of the usual female ones while
>the plugs are female. (It's mandated by the FCC as a half-assed attempt
>to discourage people from doing exactly what you want to do -- put
>heigher-gain antennas on these devices... All it's done is cause all
>the connector manufacturers to offer a wide variety of R-TNC, R-SMA and
>even R-N connectors.)
>
>You won't find these connectors at Radio Shack, (at least yet....) but
>but some sources for these connectors and ready-made cable jumpers are :
>
> http://www.hyperlinktech.com/index.html (Homepage)
```

> http://www.hyperlinktech.com/web/connectors.php (Connectors)
>
> http://wifi-parts.store.yahoo.com/
>
> http://www.fab-corp.com/
>
>The best way to implement this kind of outdoor link is to run CAT5
>ethernet cable up to the roof so you can connect the access point to the
>dish with only a 18" jumper. (Coax loss at 2.4 GHz is high but CAT5 LAN
>cable can go several hundred feet with no problems.)
>
>The only problem with this is that the AP (access point) requires 5 or
>12 VDC power provided by a wall wart. To avoid having to run 110 VAC to
>the roof, an increasingly common technique is "POE" or "Power Over
>Ethernet". A standard ethernet cable only uses 4 of the 8 conductors;
>the other are unused and unconnected in normal LAN applications. The
>unused conductors are then used to carry DC power to the device at the
>far end. Two of the unused conductors are used in parallel (to increase
>current capacity) for + power and two for negative. The evolving
>convention (about to be ratified as a IEEE standard) is to use conds 4
>and 5 for positive and conds 7 and 8 for negative.
>
>[The IEEE standard proposes to distribute telco-style current-limited
>-48 VDC over the unused conductors with the device at the far end
>expected to regulate the voltage down to whatever it needs. I just run
>the device's original 5/9/12 VDC from it's provided wall wart through
>the cable; of course the 48-volt technique would have lower IR loss for
>the same amount of delivered power. In either case, conductors 4/5 are
>positive and conductors 7/8 are negative.]
>
>
>To do this, buy or build a pair of "DC power injectors". Get 4
>surface-mount ethernet jacks. On each set of two jacks, connect pins
>1,2,3 and 6 of one of the jacks to the corresponding pins on the other
>to provide LAN data pass-through. Cut the wall-wart's DC power cord in
>the middle. Connect the half with the transformer to contacts 4/5 and
>7/8 on a jack of one pair. Connect the cable end with the plug to pins
>4/5 and 7/8 of one jack of the other jack pair.
> These jacks and their associated punch-down terminals for the
>attached wires normally are on a small printed circuit board. Etched
>patterns on the PC board create small L/C networks to provide impedance
>matching and frequency compensation for the 100 MHz signals that pass
>through them. I solder the stripped leads of the wall-wart directly to
>the PC board rather instead of trying to force the stranded #20 wire
>from the wart into the punch-down terminals.
> To make a really tidy installation, get surface-mount double-jack
>blocks so that all the cross-connections are internal.
>
>Indoors, connect the jack without the power connection to the existing
>LAN with a short CAT5 patch cord. The long cable up to the roof plugs

>into the jack WITH the power connection.
>
>At the roof, the long cable connects to the jack with with the 2.1mm
>power pigtail attached. The other jack connects to the AP RJ45 with a
>short LAN patch cord. The point of all this is to avoid back-feeding
>DC power into either the indoors LAN or the upstairs access point. I
>have successfully done this with over 200 feet of CAT5 cable between the
>two ends.
>
>These injectors are available commercially from some of the websites
>cited above.
>
>Stephen H. Smith wa8lmf (at) aol.com
>Home Page: http://wa8lmf.com
>Ham Radio/Mobile SSTV page: http://members.aol.com/wa8lmf/ham
>APRS Stuff http://members.aol.com/wa8lmf/aprs
>Personal APRS Webserver http://members.aol.com/wa8lmf/webserver
>
>
>---
>You are currently subscribed to aprssig as: n5tim@...
>To unsubscribe send a blank email to leave-aprssig-34241I@...
>Questions regarding the SIG go to the SIG administrator: wa1lou@...
>
>
>
>---
>Incoming mail is certified Virus Free.
>Checked by AVG anti-virus system (http://www.grisoft.com).
>Version: 6.0.678 / Virus Database: 440 - Release Date: 5/6/2004

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.678 / Virus Database: 440 - Release Date: 5/6/2004

[Non-text portions of this message have been removed]

96. Fwd: [aprssig] Wireless LAN extension

Yahoo group: DAWG-HSMM
Date: 2004-05-11 12:49:15 UTC
From: N5TIM
Topic: 96 Message: 96

Right up the groups ally.

>X-Originating-IP: [204.17.217.24]
>Date: Mon, 10 May 2004 11:04:41 -0400
>From: "Robert Bruninga" <bruninga@...>
>To: "TAPR APRS Special Interest Group" <aprssig@...>
>Subject: [aprssig] Wireless LAN extension
>X-Scanned-By: MIMEDefang 2.33 (www . roaringpenguin . com / mimedefang)
>List-Unsubscribe: <mailto:leave-aprssig-34241I@...>
>List-Software: Lyris Server version 3.0
>List-Subscribe: <mailto:subscribe-aprssig@...>
>List-Owner: <mailto:owner-aprssig@...>
>Reply-To: "Robert Bruninga" <bruninga@...>
>X-Message-Id: <s09f61e9.075@...>
>Sender: bounce-aprssig-34241@...
>
>
>I need a one-time extension of a wireless LAN
>out into a parking lot about a mile away through
>a lot of trees. I have 2, 4 and 10 foot dishes.
>
>What I need to know is what are the two antennas
>on the back of a link-sys access point device for?
>Is one TX and one RX, or are they both both and
>only there for spatial diversity? Can I just make a feed
>and plug in my 10 foot dish to one of them.
>
>I gotta go buy the access point and lan card for the
>laptop in a day or so...
>
>I want a blue box that I just plug into the office LAN
>and then laptops in the "hot zone" can access
>the WEB for this one time event... need advice
>on how to set this up... I can do all the RF.
>
>What I need to know are the sys-admin stuff...
>(and the antenna question)... Bob
>
>---
>You are currently subscribed to aprssig as: n5tim@...
>To unsubscribe send a blank email to leave-aprssig-34241I@...
>Questions regarding the SIG go to the SIG administrator: wa1lou@...
>
>
>

>---
>Incoming mail is certified Virus Free.
>Checked by AVG anti-virus system (http://www.grisoft.com).
>Version: 6.0.678 / Virus Database: 440 - Release Date: 5/6/2004

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.678 / Virus Database: 440 - Release Date: 5/6/2004

[Non-text portions of this message have been removed]

97. RP Connectors

Yahoo group: DAWG-HSMM
Date: 2004-05-12 13:19:51 UTC
From: Randall Dunning
Topic: 97 Message: 97

I just failed in my attempt to get some adapters from Hyperlink Technologies because the company will only talk to you if you are willing to spend $100.00 or more. Otherwise you are respectfully requested to send your paltry order elsewhere. FAB Corp and the others referenced in a previous post only advertise a subset of the RP adaptors available from the manufacturers. Now I have found a company that will sell hard to find connectors in onesies and twosies such as the N-Male to RP-TNC-Female. The company is called Altelicon (www.altelicon.com).

Using the RP-TNC-Female to N-Male connectors allows those who are making enclosures for their APs to attach the small antennas that come with the AP to the easy to find N-Female chassis mount jacks commonly used for getting RF out of the enclosure. (Yes I know you can use chassis mount RP-TNC-Female connectors as the enclosure pass through but the standard N-F connector has too many advantages to be ignored.) For some events, where one wishes to limit the radius of the AP coverage, using the small antennas makes sense. For example, providing access to a small Field Day site without providing access the surrounding neighborhood. It is also good for testing the AP in its enclosure without having to set up the big antennas. So, anyone who wants a piece of this action can drop me an email at kc5qhh@... as I will be placing the order sometime before noon. Connectors are $5.95 each and shipping is $6.50 for the entire order.

Cheerio and 0x3733 (73 in ASCII HEX)

RD

"The problem with Christianity is not that it has been tried and found wanting, but that it has been found difficult and left untried." ~ G.K. Chesterton

[Non-text portions of this message have been removed]

98. Where do I get one of those "200 Megawatt" 802.11b cards? (see ar ticle)

Yahoo group: DAWG-HSMM
Date: 2004-05-13 14:40:49 UTC
From: Randall Dunning
Topic: 98 Message: 98

Interesting WiFi stories from the "Schmoo Group"

Note section on "disgruntled ham radio operators" in the following WiFi security news piece.
http://enterprise-security-today.newsfactor.com/story.xhtml?story_title=Wi_Fi_Remains_a_Work_in_Progress&story_id=23030
<http://enterprise-security-today.newsfactor.com/story.xhtml?story_title=Wi_Fi_Remains_a_Work_in_Progress&story_id=23030>

WiFi guard dog robot.
http://news.com.com/2100-1039_3-5059541.html?tag=fd_top
<http://news.com.com/2100-1039_3-5059541.html?tag=fd_top>

0x3733

RD

"Religion in America...must be regarded as the foremost of the political institutions of that country; for if it does not impart a taste for freedom, it facilitates the use of it." ~ Alexis de Tocqueville

[Non-text portions of this message have been removed]

99. Re: [ntms-hsmm] RP Connectors

Yahoo group: DAWG-HSMM
Date: 2004-05-13 14:57:20 UTC
From: Bill K2CHP
Topic: 97 Message: 99

Thank you for the supplier link,we can never have enough resources!

Bill - K2CHP
Richardson Texas

[Non-text portions of this message have been removed]

100. Re: [ntms-hsmm] Where do I get one of those "200 Megawatt" 802.11b cards? (see ar ticle)

Yahoo group: DAWG-HSMM
Date: 2004-05-13 23:42:13 UTC
From: jbeadles@pobox.com
Topic: 98 Message: 100

Wow! Megawatts!

On 13 May 2004 at 9:40, Randall Dunning wrote:

> Interesting WiFi stories from the "Schmoo Group"
>
> Note section on "disgruntled ham radio operators" in the following WiFi
> security news piece.
> http://enterprise-security-today.newsfactor.com/story.xhtml?story_title=Wi_F
> i_Remains_a_Work_in_Progress&story_id=23030
> <http://enterprise-security-today.newsfactor.com/story.xhtml?story_title=Wi_
> Fi_Remains_a_Work_in_Progress&story_id=23030>

101. Re: [ntms-hsmm] Where do I get one of those "200 Megawatt" 802.11b cards? (see ar ticle)

Yahoo group: DAWG-HSMM
Date: 2004-05-13 23:52:16 UTC
From: Bill K2CHP
Topic: 98 Message: 101

Wonder if the laptops require a larger capacity battery ;-)

Bill - K2CHP
Richardson Texas

[Non-text portions of this message have been removed]

102. Tuesday meeting - NTMS-HSMM Reviews Wild Ride, plans HAMCOM

Yahoo group: DAWG-HSMM
Date: 2004-05-17 02:39:01 UTC
From: Douglas Kilgore
Topic: 102 Message: 102

The North Texas Microwave Society- High Speed MultiMedia group will meet Tuesday, May 18 6:30pm at Chuck's Hamburgers in the private meeting room. Chuck's is located in the shopping center northwest corner Coit Rd and Arapaho, Dallas. Talk-in 443.325+ PL110.9 and 147.12+.

At this monthly meeting, the operations of the RRMC Wild Ride bike rally will be reviewed and plans will be formulated for HamCom. Anyone with interest in HSMM is encouraged to attend.

Chuck's hamburgers has a delicious menu of a variety of hamburgers, sandwiches and salads. Join us for dinner.

Doug Kilgore KD5OUG

103. APs / Bridges from discrete components

Yahoo group: DAWG-HSMM
Date: 2004-05-20 14:08:12 UTC
From: J. Beadles
Topic: 103 Message: 103

After the Wild Ride problems, we've been discussing a bit back and forth where to go next. I'm thinking that if we were to look at a metropolitan backbone network, the way to go would be to do something like BARWN's Outdoor Router project. This uses standard wireless cards on OEM motherboards running Linux. Therefore you can use whatever routing or bridging protocols will run on Linux rather than being limited to what's in a consumer grade box.

www.barwn.org/docs/BARWN_outdoor_router.pdf

The BARWN project uses Soekris motherboards.

http://www.soekris.com/

Specifically, the net 4521, which runs on 12v, has 2 pcmcia slots and can boot off a compact flash. Price is about $194 in single units, cheaper in units greater than 1.

Also, I saw N5JXS post Microtik on another list. Microtik appears to have a whole line of single board "routers" and their own line of wireless equipment. They are more expensive, though.

http://www.microtik.com/

104. RE: [ntms-hsmm] APs / Bridges from discrete components

Yahoo group: DAWG-HSMM
Date: 2004-05-20 20:50:04 UTC
From: Anthony 'Tony' Campbell
Topic: 103 Message: 104

Count me in for one when you are ready to start building.

Tony

-----Original Message-----
From: J. Beadles [mailto:jbeadles@...]
Sent: Thursday, May 20, 2004 9:08 AM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] APs / Bridges from discrete components

After the Wild Ride problems, we've been discussing a bit back and forth where to go next. I'm thinking that if we were to look at a metropolitan backbone network, the way to go would be to do something like BARWN's Outdoor Router project. This uses standard wireless cards on OEM motherboards running Linux. Therefore you can use whatever routing or bridging protocols will run on Linux rather than being limited to what's in a consumer grade box.

www.barwn.org/docs/BARWN_outdoor_router.pdf

The BARWN project uses Soekris motherboards.

http://www.soekris.com/

Specifically, the net 4521, which runs on 12v, has 2 pcmcia slots and can boot off a compact flash. Price is about $194 in single units, cheaper in units greater than 1.

Also, I saw N5JXS post Microtik on another list. Microtik appears to have a whole line of single board "routers" and their own line of wireless equipment. They are more expensive, though.

http://www.microtik.com/

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ntms-hsmm-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

105. Sokris Project

Yahoo group: DAWG-HSMM
Date: 2004-05-21 00:12:26 UTC
From: Randall Dunning
Topic: 105 Message: 105

Lets make sure these bridges interoperate with some of the COTS equipment as many of us are invested to the point where buying additional hardware is not convenient. I am about to jam a Senao NL-2511CD PLUS EXT2 200 milliwat card into my WET-11 hooked to a 16dB V-yagi as a bridge.

RD

[Non-text portions of this message have been removed]

106. RE: [ntms-hsmm] APs / Bridges from discrete components

Yahoo group: DAWG-HSMM
Date: 2004-05-21 02:27:17 UTC
From: jbeadles@pobox.com
Topic: 103 Message: 106

Gimme at least a week. Insurance is buying me a new roof, but gotta
work out what my cash out of pocket is.

On 20 May 2004 at 15:50, Anthony 'Tony' Campbell wrote:

> Count me in for one when you are ready to start building.
>
> Tony
>
> -----Original Message-----
> From: J. Beadles [mailto:jbeadles@...]
> Sent: Thursday, May 20, 2004 9:08 AM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] APs / Bridges from discrete components
>
>
> After the Wild Ride problems, we've been discussing a bit back and
> forth where to go next. I'm thinking that if we were to look at a
> metropolitan backbone network, the way to go would be to do something
> like BARWN's Outdoor Router project. This uses standard wireless
> cards on OEM motherboards running Linux. Therefore you can use
> whatever routing or bridging protocols will run on Linux rather than
> being limited to what's in a consumer grade box.
>
> www.barwn.org/docs/BARWN_outdoor_router.pdf
>
> The BARWN project uses Soekris motherboards.
>
> http://www.soekris.com/
>
> Specifically, the net 4521, which runs on 12v, has 2 pcmcia slots and
> can boot off a compact flash. Price is about $194 in single units,
> cheaper in units greater than 1.
>
> Also, I saw N5JXS post Microtik on another list. Microtik appears to
> have a whole line of single board "routers" and their own line of
> wireless equipment. They are more expensive, though.
>
> http://www.microtik.com/
>
>
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>
>
>
> ---
> --
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> a.. To visit your group on the web, go to:
> http://groups.yahoo.com/group/ntms-hsmm/
>
> b.. To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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107. Re: [ntms-hsmm] Sokris Project

Yahoo group: DAWG-HSMM
Date: 2004-05-21 02:27:17 UTC
From: jbeadles@pobox.com
Topic: 105 Message: 107

That'll have to be tested, yeah. Still, this would be acceptable for
ackbone work with local distribution handled by the consumer gear.
At least that's where my line of thought is going.

On 20 May 2004 at 20:12, Randall Dunning wrote:

> Lets make sure these bridges interoperate with some of the COTS
> equipment as many of us are invested to the point where buying
> additional hardware is not convenient. I am about to jam a Senao
> NL-2511CD PLUS EXT2 200 milliwat card into my WET-11 hooked to a
> 16dB V-yagi as a bridge.
>
> RD
>
>
>
> [Non-text portions of this message have been removed]
>
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> Yahoo! Groups Links
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>

108. [Fwd: [NTMS] Agenda: NTMS/RMG Joint Meeting, Belton HamExpo, 22May 2004]

Yahoo group: DAWG-HSMM
Date: 2004-05-21 13:11:52 UTC
From: Douglas Kilgore
Topic: 108 Message: 108

[Non-text portions of this message have been removed]

109. Agenda: NTMS/RMG Joint Meeting, Belton HamExpo, 22May 2004

Yahoo group: DAWG-HSMM
Date: 2004-05-21 14:13:07 UTC
From: Douglas Kilgore
Topic: 109 Message: 109

NTMS, Roadrunners,

Invite your friends who are interested in microwaves and 802.11x activities!

The meeting agenda is as follows:

LUNCH

1200-1300 Lunch at Oxbow Steakhouse and Bar-B-Que.

ANNOUNCEMENTS

1255-1300 Announcements by NTMS and RMG

PROGRAM: NTMS

1300-1345 REFLOCK Success at 96 MHz, WA5TKU, Wes Atchison
Questions

PROGRAM: RMG

1345-1400 SMA Connectors + Show and Tell, N5GO, Jean Paul

1400-1450 HSMM Activities in the Austin Area + Demo
K5EJL, Joe Fisher, and KD5MFW, Glenn Currie
Questions

CLEAR MEETING AREA

1450-1500 The Oxbow closes at 1500, so all attendees must exit by 1500 hours (with all gear, etc.)

73,

Lloyd Crawford, N5GDB, EM10bf
Secretary-Treasurer
Roadrunners Microwave Group
n5gdb@...

110. NTMS / RMG Meeting at Belton Hamfest

Yahoo group: DAWG-HSMM
Date: 2004-05-21 14:51:50 UTC
From: Joe - N5PYK
Topic: 110 Message: 110

NTMS, Roadrunners,

Invite your friends who are interested in microwaves and 802.11x activities!

The meeting agenda is as follows:

LUNCH

1200-1300 Lunch at Oxbow Steakhouse and Bar-B-Que.

ANNOUNCEMENTS

1255-1300 Announcements by NTMS and RMG

PROGRAM: NTMS

1300-1345 REFLOCK Success at 96 MHz, WA5TKU, Wes Atchison

Questions

PROGRAM: RMG

1345-1400 SMA Connectors + Show and Tell, N5GO, Jean Paul

1400-1450 HSMM Activities in the Austin Area + Demo

K5EJL, Joe Fisher, and KD5MFW, Glenn Currie

Questions

CLEAR MEETING AREA

1450-1500 The Oxbow closes at 1500, so all attendees must exit by

1500 hours (with all gear, etc.)

73,

Lloyd Crawford, N5GDB, EM10bf

Secretary-Treasurer

Roadrunners Microwave Group

n5gdb@...

111. Re: [ntms-hsmm] NTMS / RMG Meeting at Belton Hamfest

Yahoo group: DAWG-HSMM
Date: 2004-05-21 15:03:13 UTC
From: Jerry - KD5OM
Topic: 110 Message: 111

What's the QTH of this Oxbow place?

********** REPLY SEPARATOR **********

On 5/21/04 at 9:51 AM Joe - N5PYK wrote:

NTMS, Roadrunners,

Invite your friends who are interested in microwaves and 802.11x
activities!

The meeting agenda is as follows:

LUNCH

1200-1300 Lunch at Oxbow Steakhouse and Bar-B-Que.

ANNOUNCEMENTS

1255-1300 Announcements by NTMS and RMG

PROGRAM: NTMS

1300-1345 REFLOCK Success at 96 MHz, WA5TKU, Wes Atchison

Questions

PROGRAM: RMG

1345-1400 SMA Connectors + Show and Tell, N5GO, Jean Paul

1400-1450 HSMM Activities in the Austin Area + Demo

K5EJL, Joe Fisher, and KD5MFW, Glenn Currie

Questions

CLEAR MEETING AREA

1450-1500 The Oxbow closes at 1500, so all attendees must exit by

1500 hours (with all gear, etc.)

73,

Lloyd Crawford, N5GDB, EM10bf

Secretary-Treasurer

Roadrunners Microwave Group

n5gdb@...

Yahoo! Groups Links

112. Re: [ntms-hsmm] NTMS / RMG Meeting at Belton Hamfest

Yahoo group: DAWG-HSMM
Date: 2004-05-21 16:54:44 UTC
From: Bill K2CHP
Topic: 110 Message: 112

The Belton Hamfest' website http://www.tarc.org/hamradio/hamexpo/oct2002early.html
The OxBow steakhouse info;
Oxbow Steakhouse & Bbq
Address: 2801 S Interstate 35, Belton, TX 76513 Phone:(254) 939-0588

Bill - K2CHP
Richardson Texas

[Non-text portions of this message have been removed]

113. Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-05-27 12:27:25 UTC
From: Bob and Debbie Kmak
Topic: 113 Message: 113

DAWGs:

Doug and I will be going up on the Arlington Convention Center roof Saturday morning with Barry GoldBlatt to sniff out the area for hotspots we might use for an internet connection for our Ham-Com forums. We could really use an experienced NetStumbler or two to make sure we don't miss anything. Contact me if interested. We tentatively plan to leave Richardson about 9 or 10 AM.

Also, if anyone knows of any hams in the Arlington area that we might use to get an internet link (they need to have a place to put an antenna that can 'see' the convention center roof, and a broadband hookup) please let me know.

73,

Bob K5WO

114. Re: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-05-27 13:59:09 UTC
From: Bill K2CHP
Topic: 113 Message: 114

I'll chip up on my stumbling this evening but will be available for Saturday's site survey if needed just lemme know.

Bill - K2CHP
Richardson Texas

[Non-text portions of this message have been removed]

115. USB clients and remote antennas

Yahoo group: DAWG-HSMM
Date: 2004-06-01 14:12:22 UTC
From: J. Beadles
Topic: 115 Message: 115

This is forwarded to the group by K5EM...

http://www.stanford.edu/~jstockdl/tmp/usbwifi.orcon.net.nz/

116. Link: WRT-54G article

Yahoo group: DAWG-HSMM
Date: 2004-06-01 14:14:24 UTC
From: J. Beadles
Topic: 116 Message: 116

This is forwarded from a number of sources...

http://www.pbs.org/cringely/pulpit/pulpit20040527.html

117. Today's question.....

Yahoo group: DAWG-HSMM
Date: 2004-06-01 14:55:01 UTC
From: Jerry Karlovich
Topic: 117 Message: 117

Got today's question.

I just had a Linksys PCI 802.11b card die. I have been using a 7.0 DBi gain antenna (http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=45001&item=3093691813) with this card. Could high VSWR have a negative effect on the output device? Just how do you measure VSWR at 2.4 GHz anyway? I'm use to wavelengths 200 times that. I see on the web many experiments using DIY antennas. Is it just "do the math and hope all works well"? I can't amagine the cost of a Bird that reads 2.4 GHz.

Jerry KD5OM

118. Re: [ntms-hsmm] Today's question.....

Yahoo group: DAWG-HSMM
Date: 2004-06-02 02:23:12 UTC
From: Bob and Debbie Kmak
Topic: 117 Message: 118

Jerry,

I wouldn't have expected the 802.11 card to be that fussy about the antenna; after all, people connect Pringles cans to them and claim good results. Could you maybe have a short in your feedline or connector?

At microwave frequencies, it's much more common to measure return loss, which can be converted to VSWR if you really want a mismatch expressed that way. Measuring return loss requires a steady signal source, a directional coupler, and an accurate way of measuring dB differences in power. I don't know of any way of making a WLAN card go 'key down' so it's not a good signal source for measuring. I have a 2.4 GHz source that sort of works and could measure the return loss of your antenna if your interested.

73,

Bob K5WO

----- Original Message -----
From: "Jerry Karlovich" <kd5om@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Tuesday, June 01, 2004 9:55 AM
Subject: [ntms-hsmm] Today's question.....

> Got today's question.
>
> I just had a Linksys PCI 802.11b card die. I have been using a 7.0
> DBi gain antenna (http://cgi.ebay.com/ws/eBayISAPI.dll?
> ViewItem&category=45001&item=3093691813) with this card. Could high
> VSWR have a negative effect on the output device? Just how do you
> measure VSWR at 2.4 GHz anyway? I'm use to wavelengths 200 times
> that. I see on the web many experiments using DIY antennas. Is it
> just "do the math and hope all works well"? I can't amagine the cost
> of a Bird that reads 2.4 GHz.
>
> Jerry KD5OM
>
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>
>
>
> Yahoo! Groups Links
>
>
>
>

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>

119. Re: [ntms-hsmm] Today's question.....

Yahoo group: DAWG-HSMM
Date: 2004-06-02 03:45:49 UTC
From: Ron Cole
Topic: 117 Message: 119

Jerry,

The Trusty Old Model 43 with a 430-182 Element will
do the job.
430-182 = 2400-2500 Mhz at 100mw.
430-240 = 2400-2500 Mhz at 250mw.

The problem is keeping the Card Output running.
Some cards have a test mode where they will generate a
Test Signal or CW Signal for Testing.

Ron
N5HYH

--- Jerry Karlovich <kd5om@...> wrote:
> Got today's question.
>
> I just had a Linksys PCI 802.11b card die. I have
> been using a 7.0
> DBi gain antenna (
> http://cgi.ebay.com/ws/eBayISAPI.dll?
> ViewItem&category=45001&item=3093691813) with this
> card. Could high
> VSWR have a negative effect on the output device?
> Just how do you
> measure VSWR at 2.4 GHz anyway? I'm use to
> wavelengths 200 times
> that. I see on the web many experiments using DIY
> antennas. Is it
> just "do the math and hope all works well"? I can't
> amagine the cost
> of a Bird that reads 2.4 GHz.
>
> Jerry KD5OM
>
>
>
> ---------- Yahoo! Groups Sponsor
> ----------~-->
> Make a clean sweep of pop-up ads. Yahoo! Companion
> Toolbar.
> Now with Pop-Up Blocker. Get it for free!
>
http://us.click.yahoo.com/L5YrjA/eSIIAA/yQLSAA/5AhqlB/TM
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---~->

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> Yahoo! Groups Links
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> ntms-hsmm-unsubscribe@yahoogroups.com
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=====
Ron

_____
Do you Yahoo!?
Friends. Fun. Try the all-new Yahoo! Messenger.
http://messenger.yahoo.com/

120. Re: [ntms-hsmm] Today's question.....

Yahoo group: DAWG-HSMM
Date: 2004-06-02 18:31:30 UTC
From: Jerry - KD5OM
Topic: 117 Message: 120

I had another machine in the house and did some swapping last night. The problem followed the card. Different card and same antenna works fine. Moved the dead card to another machine and it still didn't work. And it's beyond the 30 day return to take it back to Fry's but it is about 60 days old.

Is this a common thing or did I buy a lemon?

Jerry KD5OM

********** REPLY SEPARATOR **********

On 6/1/04 at 9:23 PM Bob and Debbie Kmak wrote:

Jerry,

I wouldn't have expected the 802.11 card to be that fussy about the antenna;
after all, people connect Pringles cans to them and claim good results.
Could you maybe have a short in your feedline or connector?

At microwave frequencies, it's much more common to measure return loss, which can be converted to VSWR if you really want a mismatch expressed that way. Measuring return loss requires a steady signal source, a directional coupler, and an accurate way of measuring dB differences in power. I don't know of any way of making a WLAN card go 'key down' so it's not a good signal source for measuring. I have a 2.4 GHz source that sort of works and could measure the return loss of your antenna if your interested.

73,

Bob K5WO

----- Original Message -----
From: "Jerry Karlovich" <kd5om@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Tuesday, June 01, 2004 9:55 AM
Subject: [ntms-hsmm] Today's question.....

> Got today's question.
>
> I just had a Linksys PCI 802.11b card die. I have been using a 7.0
> DBi gain antenna (http://cgi.ebay.com/ws/eBayISAPI.dll?
> ViewItem&category=45001&item=3093691813) with this card. Could high
> VSWR have a negative effect on the output device? Just how do you
> measure VSWR at 2.4 GHz anyway? I'm use to wavelengths 200 times
> that. I see on the web many experiments using DIY antennas. Is it
> just "do the math and hope all works well"? I can't amagine the cost

> of a Bird that reads 2.4 GHz.
>
> Jerry KD5OM
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> Yahoo! Groups Links
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Yahoo! Groups Links

121. Link: Security flaw in Linksys WRT54G

Yahoo group: DAWG-HSMM
Date: 2004-06-03 14:59:33 UTC
From: J. Beadles
Topic: 121 Message: 121

Security flaw in Linksys WRT54G

http://www.internetnews.com/infra/article.php/3362321

Thanx to Lauren for pointing this out

122. Another question.

Yahoo group: DAWG-HSMM
Date: 2004-06-03 17:25:45 UTC
From: Jerry Karlovich
Topic: 122 Message: 122

Can I use something like the WET-11 Linksys Bridge to connect to a distant access point or router then via ethernet cable into my wireless broadband router's WAN to feed the computers in my location?

Jerry KD5OM

123. Re: Another question.

Yahoo group: DAWG-HSMM
Date: 2004-06-04 21:27:01 UTC
From: J. Beadles
Topic: 122 Message: 123

The short answer is theoretically yes.

The longer answer is that the manufacturers tend to do some proprietary stuff for bridging, so different brands don't necessarily play nice together.

--- In ntms-hsmm@yahoogroups.com, "Jerry Karlovich" <kd5om@k...> wrote:
> Can I use something like the WET-11 Linksys Bridge to connect to a
> distant access point or router then via ethernet cable into my
> wireless broadband router's WAN to feed the computers in my location?
>
> Jerry KD5OM

124. Re: [ntms-hsmm] Re: Another question.

Yahoo group: DAWG-HSMM
Date: 2004-06-04 21:48:16 UTC
From: Jerry - KD5OM
Topic: 122 Message: 124

Deal is, I have an office and of coarse a home qth. I just want to avoid paying for 2 Internet accesses for the different locations. The 2 locations are a little more than a mile apart and with high enough antennas, mounting the gear in ABS boxes near the antennas, maybe I can do this with just one Internet Access.

Any suggestions?

Jerry KD5OM

********** REPLY SEPARATOR **********

On 6/4/04 at 9:27 PM J. Beadles wrote:

The short answer is theoretically yes.

The longer answer is that the manufacturers tend to do some proprietary stuff for bridging, so different brands don't necessarily play nice together.

--- In ntms-hsmm@yahoogroups.com, "Jerry Karlovich" <kd5om@k...>
wrote:
> Can I use something like the WET-11 Linksys Bridge to connect to a
> distant access point or router then via ethernet cable into my
> wireless broadband router's WAN to feed the computers in my
location?
>
> Jerry KD5OM

Yahoo! Groups Links

125. Re: [ham-80211] Client devices recommendation

Yahoo group: DAWG-HSMM
Date: 2004-06-04 23:07:22 UTC
From: Douglas Kilgore
Topic: 125 Message: 125

Here's a message from the TAPR 802.11 mailing list.

Jerry - KD5OM wrote:
>
> Deal is, I have an office and of coarse a home qth. I just want to avoid
> paying for 2 Internet accesses for the different locations. The 2 locations
> are a little more than a mile apart and with high enough antennas, mounting
> the gear in ABS boxes near the antennas, maybe I can do this with just one
> Internet Access.
>
> Any suggestions?
>
> Jerry KD5OM
>
> ********** REPLY SEPARATOR **********
>
> On 6/4/04 at 9:27 PM J. Beadles wrote:
>
> The short answer is theoretically yes.
>
> The longer answer is that the manufacturers tend to do some
> proprietary stuff for bridging, so different brands don't necessarily
> play nice together.
>
> --- In ntms-hsmm@yahoogroups.com, "Jerry Karlovich" <kd5om@k...>
> wrote:
> > Can I use something like the WET-11 Linksys Bridge to connect to a
> > distant access point or router then via ethernet cable into my
> > wireless broadband router's WAN to feed the computers in my
> location?
> >
> > Jerry KD5OM
>
>
> Yahoo! Groups Links
>
Jim Flannery wrote:
>
> Roger, I'd recommend the Senao (AKA Engenius) 2611 AP3 Access points
> and 2611 CB3 bridges. Here's the link:
> http://www.edigitalwireless.com/SearchResult.aspx?CategoryID=2
>
> These are 200 mW units, rather than 32 mW, and have much better
> receivers than most. You can house them INSIDE a RooTenna pouch and
> they take POE . Here's the link for the RooTennas:

> http://www.rflinx.com/Antenna%20Datasheets-html/2.4GHZ/
> RFLRT24%20RooTenna%20Panel%20Antenna.htm
>
> I use these as portable remote bridges for "sucking up other people's
> bandwidth" if I can't work my own 2W base AP. My home station features
> the 2611 AP3 feeding a 2W amp to a 15 dB omni that covers this valley
> south of Denver. I also run 915 mHz for those "near line-of-sight"
> situations like yours. The amps and 915 converters are available from
> the same place as the RooTennas. :^)
>
> On being paranoid, my system is wide open, and I have quite a few
> people who use it, including co-workers up to 10 kM distant. I haven't
> had any problems, and even painted a very nice metal "WarChalking sign"
> which I mounted outside my QTH. One WarDriver GPS'd me to a spot 40 kM
> east of here, so I know the signal is really getting out.
>
> Vy 73,
> Jim, K0UNX
>
> Begin forwarded message:
>
> > Subject: More on wireless performance issues
> > From: "w3sz" <w3sz@...>
>
> > So my next thought is to try another brand of WAP that I can ALSO
> > place on
> > the tower next to the antenna and power by POE. This shouldn't be a
> > problem
> > if the manufacturers are all following the standard for cat5 wiring.
> >
> > Any suggestions on whether I should in fact consider another brand,
> > and if
> > so what make and model number are recommended? I want only units that
> > will
> > operate in point to point [NOT point to multipoint] bridge mode, and
> > allow
> > MAC specific addressing, 128 bit WEP, etc.
> >
> > A final question... as I am using 128 bit WEP, MAC specific
> > addressing, etc
> > I guess I should be pretty safe in terms of hackers. I went to Best
> > Buy to
> > look at firewalls to place between each WAP and the network switch at
> > that
> > end [they didn't have any firewalls] and the salesperson told me I was
> > being
> > paranoid. Is this so?
>

126. Re: [ntms-hsmm] Re: Another question.

Yahoo group: DAWG-HSMM
Date: 2004-06-04 23:33:12 UTC
From: jbeadles@pobox.com
Topic: 122 Message: 126

Oh yeah, you can do that, so long as you are doing both ends and are responsible for the eqpt. Just be aware that your ISP agreement may forbid you from running access off the premises. Not necessarily a prob unless they find out.

On 4 Jun 2004 at 16:48, Jerry - KD5OM wrote:

> Deal is, I have an office and of coarse a home qth. I just want to avoid
> paying for 2 Internet accesses for the different locations. The 2 locations
> are a little more than a mile apart and with high enough antennas, mounting
> the gear in ABS boxes near the antennas, maybe I can do this with just one
> Internet Access.
>
> Any suggestions?
>
> Jerry KD5OM
>
> ********** REPLY SEPARATOR **********
>
> On 6/4/04 at 9:27 PM J. Beadles wrote:
>
> The short answer is theoretically yes.
>
> The longer answer is that the manufacturers tend to do some
> proprietary stuff for bridging, so different brands don't necessarily
> play nice together.
>
> --- In ntms-hsmm@yahoogroups.com, "Jerry Karlovich" <kd5om@k...>
> wrote:
> > Can I use something like the WET-11 Linksys Bridge to connect to a
> > distant access point or router then via ethernet cable into my
> > wireless broadband router's WAN to feed the computers in my
> location?
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> > Jerry KD5OM
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127. VHF and up contest this weekend

Yahoo group: DAWG-HSMM
Date: 2004-06-09 15:54:51 UTC
From: Joe - N5PYK
Topic: 127 Message: 127

Hi all,

I'd like to remind everyone about the VHF QSO party this weekend and encourage all to turn their radios on and operate at least a couple of hours during the contest. Every little bit helps and conditions could be decent tropo especially on N-S paths all the way up into Iowa. See http://www.iprimus.ca/~hepburnw/tropo.html Additionally, the June contest is also traditionally our best 6m opportunity. For those of your who are considering limited operation, the best tropo DX typically occurs in the evening and early mornings. Amazingly, conditions are often excellent Sunday morning (6-10AM) with very little participation. Consider getting on the air early and working some DX. Other great times to join in include Saturday evening and Sunday evening. The afternoons are where 6m openings often start popping, so its advisable to check into that as well. If you watch TV over the air, look for interference on the low VHF channels (2-6). If you see some, get to the hamshack. Don't forget to submit a log as well. NTMS won a gavel recently for top scores.let's strive to do even better.

We also have a chance for rain especially on Sunday.that means rainscatter. This is helpful for contacts on 2.3G and up. Don't forget to ask about the higher bands!

My plans call for activity on 50, 144, 222, 432, 902, 1296, and 10368. See you on the bands..

73,

Joe-N5PYK

President, NTMS

128. RE: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-13 17:25:35 UTC
From: Ken Patterson
Topic: 113 Message: 128

Bob, what was the outcome of the rooftop snooping trip?

de Ken,
N5EQT

129. Re: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-13 20:06:25 UTC
From: Bob and Debbie Kmak
Topic: 113 Message: 129

Ken,

We found that we could access the WayPort wireless AP from the Windham hotel next to the convention center. It's a pay service, but pretty cheap compared to the alternatives. Were probably going to use computers configured for 'internet sharing' to bring the service into the building, since the Wayport AP is a Cisco box and we have Linksys boxes, so I don't the WAP11 in AP Client mode is going to fly. But we're open to suggestions.

73,

Bob K5WO

----- Original Message -----
From: "Ken Patterson" <kenp@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Sunday, June 13, 2004 12:25 PM
Subject: RE: [ntms-hsmm] Ham-Com Net Snooping

> Bob, what was the outcome of the rooftop snooping trip?
>
> de Ken,
> N5EQT
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130. RE: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-13 21:10:32 UTC
From: Ken Patterson
Topic: 113 Message: 130

Bob...

The Wyndham AP sounds like a good deal. How much will it cost? I would be willing to chip in a few dollars to support the cause. FYI...I will arrive at the convention center midday-ish Friday and will stay at the Wyndham Friday night.

Will there be any sharing of the access with the convention attendees? Personally, I would love to see folks wirelessly checking their e-mail or surfing the web at the convention. After all, we are amateur -radio-operators.

My assistance is available if desired. My son Joshua, KC5TEG, and myself are more than familiar with internet sharing between wireless and fixed devices as I am sure others in the group are.

de Ken,
N5EQT

131. Re: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-14 01:19:19 UTC
From: Bob and Debbie Kmak
Topic: 113 Message: 131

Ken,

I look forward to meeting you and your son. You can go to WayPort's web site to see their fee schedule. It's $10.00 per day per computer, but they have monthly and multiple connection rates as well. We're betting that if we put a router behind the PCs we use to connect, they won't see that we have more than one PC, but that could turn out to be a bit optimistic.

We were quite surprised to learn that the parking lot area around the Wyndham is hot, as well as from the roof of the convention center. I don't think it's an accident.

We plan to provide wireless connectivity to the forums and some of the booths; whether there will be general wireless access to the internet is beyond what we plan, but who knows?

73,

Bob K5WO

----- Original Message -----
From: "Ken Patterson" <kenp@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Sunday, June 13, 2004 4:10 PM
Subject: RE: [ntms-hsmm] Ham-Com Net Snooping

> Bob...
>
> The Wyndham AP sounds like a good deal. How much will it cost? I would be
> willing to chip in a few dollars to support the cause. FYI...I will arrive
> at the convention center midday-ish Friday and will stay at the Wyndham
> Friday night.
>
> Will there be any sharing of the access with the convention attendees?
> Personally, I would love to see folks wirelessly checking their e-mail or
> surfing the web at the convention. After all, we are amateur -radio-
> operators.
>
> My assistance is available if desired. My son Joshua, KC5TEG, and myself
are
> more than familiar with internet sharing between wireless and fixed
devices
> as I am sure others in the group are.
>
> de Ken,
> N5EQT
>

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132. RWK Meeting Monday Change of Location

Yahoo group: DAWG-HSMM
Date: 2004-06-14 01:30:43 UTC
From: Douglas Kilgore
Topic: 132 Message: 132

The Richardson Wireless Klub will meet Monday June 14 in the Chapel of St. Barnabas Presbyterian Church, 1220 West Beltline, Richardson at 7:00pm. Note that this is a change from the regular meeting room. Please COME IN THE EAST DOOR.

Our speaker is Phil Salas AD5X, the author a many articles in QST magazine. His topic is "Efficiency of Short Antennas". This topic should be of great interest to mobile operators.

Visitors are welcome.

Doug Kilgore KD5OUG

133. Re: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-14 06:42:02 UTC
From: jbeadles@pobox.com
Topic: 113 Message: 133

We'll have to be careful about using internet sharing. Non-server
class windows software will only allow 5 clients at a time.

On 13 Jun 2004 at 15:06, Bob and Debbie Kmak wrote:

> Ken,
>
> We found that we could access the WayPort wireless AP from the Windham hotel
> next to the convention center. It's a pay service, but pretty cheap compared
> to the alternatives. Were probably going to use computers configured for
> 'internet sharing' to bring the service into the building, since the Wayport
> AP is a Cisco box and we have Linksys boxes, so I don't the WAP11 in AP
> Client mode is going to fly. But we're open to suggestions.
>
> 73,
>
> Bob K5WO
>
> ----- Original Message -----
> From: "Ken Patterson" <kenp@...>
> To: <ntms-hsmm@yahoogroups.com>
> Sent: Sunday, June 13, 2004 12:25 PM
> Subject: RE: [ntms-hsmm] Ham-Com Net Snooping
>
>
> > Bob, what was the outcome of the rooftop snooping trip?
> >
> > de Ken,
> > N5EQT
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134. Re: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-14 11:55:50 UTC
From: Bob and Debbie Kmak
Topic: 113 Message: 134

John,

I can install 2000 server if necessary. How many connections do you think
will be needed for the APRS and HSMM forums?
Also, if we put a router behind the win2000 box, will it really know how
many PCs are back there?

Bob

----- Original Message -----
From: <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Monday, June 14, 2004 1:42 AM
Subject: Re: [ntms-hsmm] Ham-Com Net Snooping

> We'll have to be careful about using internet sharing. Non-server
> class windows software will only allow 5 clients at a time.
>
> On 13 Jun 2004 at 15:06, Bob and Debbie Kmak wrote:
>
> > Ken,
> >
> > We found that we could access the WayPort wireless AP from the Windham
hotel
> > next to the convention center. It's a pay service, but pretty cheap
compared
> > to the alternatives. Were probably going to use computers configured for
> > 'internet sharing' to bring the service into the building, since the
Wayport
> > AP is a Cisco box and we have Linksys boxes, so I don't the WAP11 in AP
> > Client mode is going to fly. But we're open to suggestions.
> >
> > 73,
> >
> > Bob K5WO
> >
> > ----- Original Message -----
> > From: "Ken Patterson" <kenp@...>
> > To: <ntms-hsmm@yahoogroups.com>
> > Sent: Sunday, June 13, 2004 12:25 PM
> > Subject: RE: [ntms-hsmm] Ham-Com Net Snooping
> >
> >
> > > Bob, what was the outcome of the rooftop snooping trip?
> > >
> > > de Ken,

> > > N5EQT
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135. Re: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-14 12:25:24 UTC
From: jbeadles@pobox.com
Topic: 113 Message: 135

For the presenters, not that many. 2 or 3, If I remember correctly.
I think you are right, a router running NAT should hide the IPs
behind it, but not sure without testing.

One of the things we had discussed doing in the past was putting up a
web server in the convention center so that attendees could download
the presentations directly. Are we still planning on doing that?

On 14 Jun 2004 at 6:55, Bob and Debbie Kmak wrote:

> John,
>
> I can install 2000 server if necessary. How many connections do you think
> will be needed for the APRS and HSMM forums?
> Also, if we put a router behind the win2000 box, will it really know how
> many PCs are back there?
>
> Bob
>
>
> ----- Original Message -----
> From: <jbeadles@...>
> To: <ntms-hsmm@yahoogroups.com>
> Sent: Monday, June 14, 2004 1:42 AM
> Subject: Re: [ntms-hsmm] Ham-Com Net Snooping
>
>
> > We'll have to be careful about using internet sharing. Non-server
> > class windows software will only allow 5 clients at a time.
> >
> > On 13 Jun 2004 at 15:06, Bob and Debbie Kmak wrote:
> >
> > > Ken,
> > >
> > > We found that we could access the WayPort wireless AP from the Windham
> hotel
> > > next to the convention center. It's a pay service, but pretty cheap
> compared
> > > to the alternatives. Were probably going to use computers configured for
> > > 'internet sharing' to bring the service into the building, since the
> Wayport
> > > AP is a Cisco box and we have Linksys boxes, so I don't the WAP11 in AP
> > > Client mode is going to fly. But we're open to suggestions.
> > >
> > > 73,
> > >

> > > Bob K5WO
> > >
> > > ----- Original Message -----
> > > From: "Ken Patterson" <kenp@...>
> > > To: <ntms-hsmm@yahoogroups.com>
> > > Sent: Sunday, June 13, 2004 12:25 PM
> > > Subject: RE: [ntms-hsmm] Ham-Com Net Snooping
> > >
> > >
> > > > Bob, what was the outcome of the rooftop snooping trip?
> > > >
> > > > de Ken,
> > > > N5EQT
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136. RE: [ntms-hsmm] Digest Number 47

Yahoo group: DAWG-HSMM
Date: 2004-06-14 14:32:59 UTC
From: Randall Dunning
Topic: 136 Message: 136

```
- Bob wrote:
>> Were probably going to use computers configured for 'internet sharing'
>> to bring the service into the building, since the Wayport AP is a Cisco
>> box and we have Linksys boxes, so I don't the WAP11 in AP Client mode
>> is going to fly. But we're open to suggestions.

Does anyone have a link or the information on how to make a Windows 95
box do "internet sharing"?

RD

[Non-text portions of this message have been removed]
```

137. RE: [ntms-hsmm] Digest Number 47

Yahoo group: DAWG-HSMM
Date: 2004-06-14 15:05:04 UTC
From: Ken Patterson
Topic: 136 Message: 137

Yep. Sygate. Works with Windows 95b to XP

http://smb.sygate.com/products/shn/shn_ov.htm

{http://smb.sygate.com/products/shn/shn_ov.htm}

A trial download is available at the above site.

The usual disclaimer where neither I or any family members have a financial interest in Sygate applies. Only satisfied users here.

de Ken,
N5EQT
EM22

138. Linksys Compatability Problems

Yahoo group: DAWG-HSMM
Date: 2004-06-14 15:16:49 UTC
From: Douglas Kilgore
Topic: 138 Message: 138

For HamCom this weekend June 18 and 19, we are planning to put open access points in each of the three large meeting areas - the Exhibit Hall, the Meeting Rooms Hall, and the Great Hall. For an internet feed, we want to pay the daily rate for a connection to a Wayport hotspot running Cisco equipment in the hotel just 200 feet from the Arlington Convention Center. But we are running into problems connecting the external feed to the internal network.

We are open to suggestions!!

Here's what was planned:

A Linksys WAP11 Ver.2.8 access point on roof with dish antenna toward hotel. Cat-5 feed from roof down to a Linksys BEFSR41 4 port switch. The switch has NAT so we think the multiple MAC addresses will be hidden from the hotspot. From the switch, Cat-5 runs to 3 each Linksys BEFW11S4 wireless accesspoint/routers with WSB24 amplifiers attached. We have all this equipment.

We have been on the roof with laptops using Senao and SMC 200 mW client cards hooked to the barbeque dish antennas. Results 100% at 11Mbps - very strong signal.

Our problem is the WAP11. We can connect it to a laptop with a Cat-5 crossover cable and connect to the default admin page at address ...251. We tried to set it for remote client but it says it will work only with certain other Linksys products. We tried DHCP and also fixed IP. Left and right antenna. It won't associate.

To test we attempted to associate with a local restaurant hotspot. We can associate with a client card but not the WAP11.

One alternative we are considering is using a laptop with a client card to associate with the hotspot and using Windows XP as server. But that means either a long coax run or placing the laptop on the roof. Not good.

So can anyone suggest a piece of equipment that we can borrow for this weekend that will set on the roof and connect us to the hotspot?

Doug Kilgore KD5OUG
kd5oug@...
Ph 972-231-8539
Richardson, TX

139. Re: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-14 16:01:59 UTC
From: Brett Neilson
Topic: 113 Message: 139

To connect multiple people to the Wayport network you will require 2 AP's.

The first one needs to be running as a bridge (Wireless to Wired). Typically this AP would then be connected to a router. This setup works best with a broadband router such as a Linksys or Dlink. The Bridge AP is connected to the WAN port on the Router. One of the switch ports of the router is then connected to the a second AP. The second AP is the one everybody ois connected to.

By doing this Wayport only sees the Router as being connected and everybody else behind it can have access via the second AP. (See attached)

Brett Neilson
brett@...
http://www.brettneilson.com

GPG Public Key ID: 0x69759F44

-----Original Message-----
From: jbeadles@...
To: ntms-hsmm@yahoogroups.com
Date: Mon, 14 Jun 2004 07:25:24 -0500
Subject: Re: [ntms-hsmm] Ham-Com Net Snooping

For the presenters, not that many. 2 or 3, If I remember correctly. I think you are right, a router running NAT should hide the IPs behind it, but not sure without testing.

One of the things we had discussed doing in the past was putting up a web server in the convention center so that attendees could download the presentations directly. Are we still planning on doing that?

On 14 Jun 2004 at 6:55, Bob and Debbie Kmak wrote:

> John,
>
> I can install 2000 server if necessary. How many connections do you think
> will be needed for the APRS and HSMM forums?
> Also, if we put a router behind the win2000 box, will it really know how
> many PCs are back there?
>
> Bob
>
>
> ----- Original Message -----
> From: <jbeadles@...>
> To: <ntms-hsmm@yahoogroups.com>

> Sent: Monday, June 14, 2004 1:42 AM
> Subject: Re: [ntms-hsmm] Ham-Com Net Snooping
>
>
> > We'll have to be careful about using internet sharing. Non-server
> > class windows software will only allow 5 clients at a time.
> >
> > On 13 Jun 2004 at 15:06, Bob and Debbie Kmak wrote:
> >
> > > Ken,
> > >
> > > We found that we could access the WayPort wireless AP from the Windham
> hotel
> > > next to the convention center. It's a pay service, but pretty cheap
> compared
> > > to the alternatives. Were probably going to use computers configured
for
> > > 'internet sharing' to bring the service into the building, since the
> Wayport
> > > AP is a Cisco box and we have Linksys boxes, so I don't the WAP11 in
AP
> > > Client mode is going to fly. But we're open to suggestions.
> > >
> > > 73,
> > >
> > > Bob K5WO
> > >
> > > ----- Original Message -----
> > > From: "Ken Patterson" <kenp@...>
> > > To: <ntms-hsmm@yahoogroups.com>
> > > Sent: Sunday, June 13, 2004 12:25 PM
> > > Subject: RE: [ntms-hsmm] Ham-Com Net Snooping
> > >
> > >
> > > > Bob, what was the outcome of the rooftop snooping trip?
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> > > > de Ken,
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To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/

To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

140. Re: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-14 17:34:17 UTC
From: signup
Topic: 113 Message: 140

Finally found the problem with my mail -- 1. Wayport to cat 5 to WRT54G 2. Bridge BEFW11s4 to cat 5 to WAP11 3. Wireless card to laptop /lee - K5UN ---------- Original Message ---------- From: "Brett Neilson" Reply-To: ntms-hsmm@yahoogroups.com Date: Mon, 14 Jun 2004 11:01:59 -0500 > > > > >To connect multiple people to the Wayport network you will require 2 AP's.
>
>The first one needs to be running as a bridge (Wireless to Wired).
>Typically this AP would then be connected to a router. This setup works
>best with a broadband router such as a Linksys or Dlink. The Bridge AP is
>connected to the WAN port on the Router. One of the switch ports of the
>router is then connected to the a second AP. The second AP is the one
>everybody ois connected to.
>
>By doing this Wayport only sees the Router as being connected and everybody
>else behind it can have access via the second AP. (See attached)
>
>
>Brett Neilson
>brett@...
>http://www.brettneilson.com
>
>GPG Public Key ID: 0x69759F44
>
>
>-----Original Message-----
>From: jbeadles@...
>To: ntms-hsmm@yahoogroups.com
>Date: Mon, 14 Jun 2004 07:25:24 -0500
>Subject: Re: [ntms-hsmm] Ham-Com Net Snooping
>
>For the presenters, not that many. 2 or 3, If I remember correctly.
>I think you are right, a router running NAT should hide the IPs
>behind it, but not sure without testing.
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>One of the things we had discussed doing in the past was putting up a
>web server in the convention center so that attendees could download
>the presentations directly. Are we still planning on doing that?
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>On 14 Jun 2004 at 6:55, Bob and Debbie Kmak wrote:
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>> John,
>>
>> I can install 2000 server if necessary. How many connections do you think
>> will be needed for the APRS and HSMM forums?
>> Also, if we put a router behind the win2000 box, will it really know how

>> many PCs are back there?
>>
>> Bob
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>>
>> ----- Original Message -----
>> From:
>> To:
>> Sent: Monday, June 14, 2004 1:42 AM
>> Subject: Re: [ntms-hsmm] Ham-Com Net Snooping
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>> > We'll have to be careful about using internet sharing. Non-server
>> > class windows software will only allow 5 clients at a time.
>> >
>> > On 13 Jun 2004 at 15:06, Bob and Debbie Kmak wrote:
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>> > > Ken,
>> > >
>> > > We found that we could access the WayPort wireless AP from the Windham
>> hotel
>> > > next to the convention center. It's a pay service, but pretty cheap
>> compared
>> > > to the alternatives. Were probably going to use computers configured
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>> > > 'internet sharing' to bring the service into the building, since the
>> Wayport
>> > > AP is a Cisco box and we have Linksys boxes, so I don't the WAP11 in
>AP
>> > > Client mode is going to fly. But we're open to suggestions.
>> > >
>> > > 73,
>> > >
>> > > Bob K5WO
>> > >
>> > > ----- Original Message -----
>> > > From: "Ken Patterson"
>> > > To:
>> > > Sent: Sunday, June 13, 2004 12:25 PM
>> > > Subject: RE: [ntms-hsmm] Ham-Com Net Snooping
>> > >
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>> > > > Bob, what was the outcome of the rooftop snooping trip?
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>To visit your group on the web, go to:
>http://groups.yahoo.com/group/ntms-hsmm/
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>To unsubscribe from this group, send an email to:
>ntms-hsmm-unsubscribe@yahoogroups.com
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>Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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>[Non-text portions of this message have been removed]
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http://groups.yahoo.com/group/ntms-hsmm/
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- To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com
>
- Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
(http://docs.yahoo.com/info/terms/). > > > > > > > > > >
_____ Sent via the WebMail
system at mail.hf.org

141. Re: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-14 20:47:10 UTC
From: bdkmak@comcast.net
Topic: 113 Message: 141

Lee, If I understand your list correctly, you are assuming that we have a cat 5 connection to WayPort? This is not the case; we will have a wireless connection (antenna on HamCom roof to WayPort AP), and that's the problem. We don't know of a box, other than a PC, that will let us connect to WayPort's Cisco AP. But still, that's an interesting idea-if we could acquire a cat 5 connection to WayPort inside the hotel, and they would let us run that cable out into the parking lot... 73, Bob K5WO > > Finally found the problem with my mail -- > > 1. Wayport to cat 5 to WRT54G > 2. Bridge BEFW11s4 to cat 5 to WAP11 > 3. Wireless card to laptop > > /lee - K5UN > > > ---------- Original Message ---------- > From: "Brett Neilson" > Reply-To: ntms-hsmm@yahoogroups.com > Date: Mon, 14 Jun 2004 11:01:59 -0500 > > > > > > > > > >To connect multiple people to the Wayport network you will require 2 AP's.
> >
> >The first one needs to be running as a bridge (Wireless to Wired).?
> >Typically this AP would then be connected to a router.? This setup works
> >best with a broadband router such as a Linksys or Dlink.? The Bridge AP is
> >connected to the WAN port on the Router.? One of the switch ports of the
> >router is then connected to the a second AP.? The second AP is the one
> >everybody ois connected to.
> >
> >By doing this Wayport only sees the Router as being connected and everybody >
> >else behind it can have access via the second AP.? (See attached)
> >
> >
> >Brett Neilson
> >brett@...
> >http://www.brettneilson.com
> >
> >GPG Public Key ID: 0x69759F44
> >
> >
> >-----Original Message-----
> >From: jbeadles@...
> >To: ntms-hsmm@yahoogroups.com
> >Date: Mon, 14 Jun 2004 07:25:24 -0500
> >Subject: Re: [ntms-hsmm] Ham-Com Net Snooping
> >
> >For the presenters, not that many.? 2 or 3, If I remember correctly.
> >I think you are right, a router running NAT should hide the IPs
> >behind it, but not sure without testing.
> >
> >One of the things we had discussed doing in the past was putting up a
> >web server in the convention center so that attendees could download
> >the presentations directly.? Are we still planning on doing that?
> >
> >On 14 Jun 2004 at 6:55, Bob and Debbie Kmak wrote:

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> >> John,
> >>
> >> I can install 2000 server if necessary. How many connections do you think
> >> will be needed for the APRS and HSMM forums?
> >> Also, if we put a router behind the win2000 box, will it really know how
> >> many PCs are back there?
> >>
> >> Bob
> >>
> >>
> >> ----- Original Message -----
> >> From:
> >> To:
> >> Sent: Monday, June 14, 2004 1:42 AM
> >> Subject: Re: [ntms-hsmm] Ham-Com Net Snooping
> >>
> >>
> >> > We'll have to be careful about using internet sharing.? Non-server
> >> > class windows software will only allow 5 clients at a time.
> >> >
> >> > On 13 Jun 2004 at 15:06, Bob and Debbie Kmak wrote:
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> >> > > Ken,
> >> > >
> >> > > We found that we could access the WayPort wireless AP from the > Windham
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> >> compared
> >> > > to the alternatives. Were probably going to use computers configured
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> >> > > 'internet sharing' to bring the service into the building, since the
> >> Wayport
> >> > > AP is a Cisco box and we have Linksys boxes, so I don't the WAP11 in
> >AP
> >> > > Client mode is going to fly. But we're open to suggestions.
> >> > >
> >> > > 73,
> >> > >
> >> > > Bob K5WO
> >> > >
> >> > > ----- Original Message -----
> >> > > From: "Ken Patterson"
> >> > > To:
> >> > > Sent: Sunday, June 13, 2004 12:25 PM
> >> > > Subject: RE: [ntms-hsmm] Ham-Com Net Snooping
> >> > >
> >> > >
> >> > > > Bob, what was the outcome of the rooftop snooping trip?
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> >> > > > de Ken,
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> >To visit your group on the web, go to:
> > href="http://groups.yahoo.com/group/ntms-hsmm/">http://groups.yahoo.com/group/nt >
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> >?
> >To unsubscribe from this group, send an email to:
> >ntms-hsmm-unsubscribe@yahoogroups.com
> >?
> >Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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> >[Non-text portions of this message have been removed]
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src="http://us.a1.yimg.com/us.yimg.com/a/ne/netflix/yhoo0504_b_300250a052604.gif > "
alt="click here" width="300" height="250" border="0">
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src="http://us.adserver.yahoo.com/l?M=298184.5022502.6152625.3001176/D=groups/S= >
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> > > >Yahoo! Groups Links
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- To visit your group on the web, go to:
href="http://groups.yahoo.com/group/ntms-hsmm/">http://groups.yahoo.com/group/nt >
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- To unsubscribe from this group, send an email to:
href="mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe">ntms-hsm >
m-unsubscribe@yahoogroups.com
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- Your use of Yahoo! Groups is subject to the
href="http://docs.yahoo.com/info/terms/">Yahoo! Terms of Service. > > > > > > > > > > > > > >
> > > > > > > > > > > > > _____
> Sent via the WebMail system at mail.hf.org > > > > > > > > > > Yahoo! Groups Links > > >
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142. [Fwd: [ARRL-80211B] Linksys Compatability Problems]

Yahoo group: DAWG-HSMM
Date: 2004-06-14 22:11:15 UTC
From: Douglas Kilgore
Topic: 142 Message: 142

Does anyone in Dallas have a Linksys WET11 we can borrow for 4 days to use at HamCom?

Doug KD5OUG

[Non-text portions of this message have been removed]

143. Re: [ntms-hsmm] Digest Number 47

Yahoo group: DAWG-HSMM
Date: 2004-06-14 22:59:35 UTC
From: Bob and Debbie Kmak
Topic: 136 Message: 143

RD,

One of the interesting things I came across while researching this subject on the web is that Win98 can be used for internet sharing but has no connection limit, unlike win 2K Professional.

Bob

----- Original Message -----
From: "Randall Dunning" <kc5qhh@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Monday, June 14, 2004 9:32 AM
Subject: RE: [ntms-hsmm] Digest Number 47

> - Bob wrote:
> >> Were probably going to use computers configured for 'internet sharing'
> >> to bring the service into the building, since the Wayport AP is a Cisco
> >> box and we have Linksys boxes, so I don't the WAP11 in AP Client mode
> >> is going to fly. But we're open to suggestions.
>
> Does anyone have a link or the information on how to make a Windows 95
> box do "internet sharing"?
>
> RD
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>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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144. Re: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-14 22:57:07 UTC
From: Bob and Debbie Kmak
Topic: 113 Message: 144

John,

Hadn't even thought of it until just now... If someone could come up with a box, I guess we could run a web server on it. The boxes I plan to use as Win 2K 'internet connection sharers' are probably under powered to run a web server also.

Bob

----- Original Message -----
From: <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Monday, June 14, 2004 7:25 AM
Subject: Re: [ntms-hsmm] Ham-Com Net Snooping

> For the presenters, not that many. 2 or 3, If I remember correctly.
> I think you are right, a router running NAT should hide the IPs
> behind it, but not sure without testing.
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> One of the things we had discussed doing in the past was putting up a
> web server in the convention center so that attendees could download
> the presentations directly. Are we still planning on doing that?
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> On 14 Jun 2004 at 6:55, Bob and Debbie Kmak wrote:
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> > John,
> >
> > I can install 2000 server if necessary. How many connections do you
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> > Also, if we put a router behind the win2000 box, will it really know how
> > many PCs are back there?
> >
> > Bob
> >
> >
> > ----- Original Message -----
> > From: <jbeadles@...>
> > To: <ntms-hsmm@yahoogroups.com>
> > Sent: Monday, June 14, 2004 1:42 AM
> > Subject: Re: [ntms-hsmm] Ham-Com Net Snooping
> >
> >
> > > We'll have to be careful about using internet sharing. Non-server
> > > class windows software will only allow 5 clients at a time.
> > >

> > > On 13 Jun 2004 at 15:06, Bob and Debbie Kmak wrote:
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> > > > Ken,
> > > >
> > > > We found that we could access the WayPort wireless AP from the
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> > hotel
> > > > next to the convention center. It's a pay service, but pretty cheap
> > compared
> > > > to the alternatives. Were probably going to use computers configured
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> > > > 'internet sharing' to bring the service into the building, since the
> > Wayport
> > > > AP is a Cisco box and we have Linksys boxes, so I don't the WAP11 in
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> > > > Client mode is going to fly. But we're open to suggestions.
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> > > > 73,
> > > >
> > > > Bob K5WO
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> > > > ----- Original Message -----
> > > > From: "Ken Patterson" <kenp@...>
> > > > To: <ntms-hsmm@yahoogroups.com>
> > > > Sent: Sunday, June 13, 2004 12:25 PM
> > > > Subject: RE: [ntms-hsmm] Ham-Com Net Snooping
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145. Re: Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-15 00:57:42 UTC
From: J. Beadles
Topic: 113 Message: 145

--- In ntms-hsmm@yahoogroups.com, "Bob and Debbie Kmak" <bdkmak@c...>
wrote:
> John,
>
> Hadn't even thought of it until just now... If someone could come
up with a
> box, I guess we could run a web server on it. The boxes I plan to
use as Win
> 2K 'internet connection sharers' are probably under powered to run
a web
> server also.
>

Mmm, shouldn't be. Web servers don't really suck down that much CPU,
and we won't be getting that many hits.

146. Re: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-15 02:46:52 UTC
From: signup
Topic: 113 Message: 146

Hi, Yes, I am assuming that there will be a cat 5 connection in a room and most rooms have a window, so a WAP at the window would provide a signal to roof and a bridge on the roof could feed a wap to the convention center .. maybe more hardware than everyone was thinking of ... Just a suggestion ... /lee k5un ---------- Original Message ---------- From: bdkmak@... Reply-To: ntms-hsmm@yahoogroups.com Date: Mon, 14 Jun 2004 20:47:10 +0000 >Lee, > >If I understand your list correctly, you are assuming that we have a cat 5 connection to WayPort? This is not the case; we will have a wireless connection (antenna on HamCom roof to WayPort AP), and that's the problem. We don't know of a box, other than a PC, that will let us connect to WayPort's Cisco AP. > >But still, that's an interesting idea-if we could acquire a cat 5 connection to WayPort inside the hotel, and they would let us run that cable out into the parking lot... > >73, > >Bob K5WO > > >> >> Finally found the problem with my mail -- >> >> 1. Wayport to cat 5 to WRT54G >> 2. Bridge BEFW11s4 to cat 5 to WAP11 >> 3. Wireless card to laptop >> >> /lee -K5UN >> >> >> ---------- Original Message ---------- >> From: "Brett Neilson" >> Reply-To: ntms-hsmm@yahoogroups.com >> Date: Mon, 14 Jun 2004 11:01:59 -0500 >> >> > >> > >> > >> > >> >To connect multiple people to the Wayport network you will require 2 AP's.
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>> >connected to the WAN port on the Router. One of the switch ports of the
>> >router is then connected to the a second AP. The second AP is the one
>> >everybody ois connected to.
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>> >By doing this Wayport only sees the Router as being connected and everybody >>
>> >else behind it can have access via the second AP. (See attached)
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>> >
>> >Brett Neilson
>> >brett@...
>> >http://www.brettneilson.com
>> >
>> >GPG Public Key ID: 0x69759F44
>> >
>> >
>> >-----Original Message-----
>> >From: jbeadles@...
>> >To: ntms-hsmm@yahoogroups.com
>> >Date: Mon, 14 Jun 2004 07:25:24 -0500
>> >Subject: Re: [ntms-hsmm] Ham-Com Net Snooping
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>> >For the presenters, not that many. 2 or 3, If I remember correctly.
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>> >> many PCs are back there?
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>> >> ----- Original Message -----
>> >> From:
>> >> To:
>> >> Sent: Monday, June 14, 2004 1:42 AM
>> >> Subject: Re: [ntms-hsmm] Ham-Com Net Snooping
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>> >> > > Client mode is going to fly. But we're open to suggestions.
>> >> > >
>> >> > > 73,
>> >> > >
>> >> > > Bob K5WO
>> >> > >
>> >> > > ----- Original Message -----
>> >> > > From: "Ken Patterson"
>> >> > > To:

>> >> > > Sent: Sunday, June 13, 2004 12:25 PM
>> >> > > Subject: RE: [ntms-hsmm] Ham-Com Net Snooping
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>> >> > > > Bob, what was the outcome of the rooftop snooping trip?
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>> >Yahoo! Groups Links
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>> >To unsubscribe from this group, send an email to:
>> >ntms-hsmm-unsubscribe@yahoogroups.com
>> >
>> >Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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flix.com/Default?mqso=60183349" alt="">>
src="http://us.a1.yimg.com/us.yimg.com/a/ne/netflix/yhoo0504_b_300250a052604.gif >> "
alt="click here" width="300" height="250" border="0">
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:HM/A=2164338/rand=523756426">
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ms-hsmm/
>> >
- To unsubscribe from this group, send an email to:
> href="mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe">ntms-hsm >>
m-unsubscribe@yahoogroups.com
>> >
- Your use of Yahoo! Groups is subject to the >
href="http://docs.yahoo.com/info/terms/">Yahoo! Terms of Service. >> > >> > >> > >> > >> >
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system at mail.hf.org >> >> >> >> >> >> >> >> >> >> Yahoo! Groups Links >> >> >> >> >> > >
> > >Yahoo! Groups Links > > > > > >
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system at mail.hf.org

147. Re: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-15 03:01:46 UTC
From: Bob and Debbie Kmak
Topic: 113 Message: 147

Lee, A good suggestion at that. I'm not knocking it down, but I don't think any of the windows open. And they are coated with metallic-reflective stuff so an antenna taped to the inside of the window might not work so good... A few weeks ago, the desk clerk told us that both wired and wireless connections are available in the hotel. Actually, from the way I had to point a dish mounted on the (low) convention center roof, I'd just about swear that the source of what we are receiving is on or near the roof of the hotel, which doesn't make a lot of sense if the goal is to provide access to people INSIDE the hotel. But maybe they want to make it available to patrons in the parking lot too. So many questions... Bob ----- Original Message ----- From: "signup" To: Sent: Monday, June 14, 2004 9:46 PM Subject: Re: [ntms-hsmm] Ham-Com Net Snooping Hi, Yes, I am assuming that there will be a cat 5 connection in a room and most rooms have a window, so a WAP at the window would provide a signal to roof and a bridge on the roof could feed a wap to the convention center .. maybe more hardware than everyone was thinking of ... Just a suggestion ... /lee k5un ---------- Original Message ---------- From: bdkmak@... Reply-To: ntms-hsmm@yahoogroups.com Date: Mon, 14 Jun 2004 20:47:10 +0000 >Lee, > >If I understand your list correctly, you are assuming that we have a cat 5 connection to WayPort? This is not the case; we will have a wireless connection (antenna on HamCom roof to WayPort AP), and that's the problem. We don't know of a box, other than a PC, that will let us connect to WayPort's Cisco AP. > >But still, that's an interesting idea-if we could acquire a cat 5 connection to WayPort inside the hotel, and they would let us run that cable out into the parking lot... > >73, > >Bob K5WO > > >> >> Finally found the problem with my mail -- >> >> 1. Wayport to cat 5 to WRT54G >> 2. Bridge BEFW11s4 to cat 5 to WAP11 >> 3. Wireless card to laptop >> >> /lee - K5UN >> >> >> ---------- Original Message ---------- >> From: "Brett Neilson" >> Reply-To: ntms-hsmm@yahoogroups.com >> Date: Mon, 14 Jun 2004 11:01:59 -0500 >> >> > >> > >> > >> >
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>> >
>> >Brett Neilson
>> >brett@...
>> >http://www.brettneilson.com
>> >
>> >GPG Public Key ID: 0x69759F44
>> >
>> >

>> >-----Original Message-----
>> >From: jbeadles@...
>> >To: ntms-hsmm@yahoogroups.com
>> >Date: Mon, 14 Jun 2004 07:25:24 -0500
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>> >> > > To:
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>> >To visit your group on the web, go to:
>> >> href="http://groups.yahoo.com/group/ntms-hsmm/">http://groups.yahoo.com/grou p/nt >>
ms-hsmm/
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>> >To unsubscribe from this group, send an email to:
>> >ntms-hsmm-unsubscribe@yahoogroups.com
>> >
>> >Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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roups/S=1705644089:HM/EXP=1087315332/A=2164338/R=0/SIG=11ed4vqbv/*http://www .net >>
flix.com/Default?mqso=60183349" alt="">>
src="http://us.a1.yimg.com/us.yimg.com/a/ne/netflix/yhoo0504_b_300250a052604 .gif >> "
alt="click here" width="300" height="250" border="0">
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> src="http://us.adserver.yahoo.com/l?M=298184.5022502.6152625.3001176/D=group s/S= >>
:HM/A=2164338/rand=523756426">
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- To visit your group on the web, go to:
> href="http://groups.yahoo.com/group/ntms-hsmm/">http://groups.yahoo.com/grou p/nt >>
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- To unsubscribe from this group, send an email to:
> href="mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe">ntms -hsm >>
m-unsubscribe@yahoogroups.com
>> >
- Your use of Yahoo! Groups is subject to the >
href="http://docs.yahoo.com/info/terms/">Yahoo! Terms of Service. >> > >> > >> > >> > >> >
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system at mail.hf.org >> >> >> >> >> >> >> >> >> >> Yahoo! Groups Links >> >> >> >> >> > >
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system at mail.hf.org Yahoo! Groups Links

148. Re: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-15 03:06:17 UTC
From: Douglas Kilgore
Topic: 113 Message: 148

That was the first consideration. The rooms that have been rented by HamCom staff are located in a wing away from the Convention Center. Also the solid windows are covered with metalized mylar to cut down solar heating which also prevents RF from going thru. Doug Kilgore KD5OUG signup wrote: > > Hi, > > Yes, I am assuming that there will be a cat 5 connection in a room and most rooms have a window, so a WAP at the window would provide a signal to roof and a bridge on the roof could feed a wap to the convention center .. maybe more hardware than everyone was thinking of ... > > Just a suggestion ... > > /lee k5un > > ---------- Original Message ---------- > From: bdkmak@... > Reply-To: ntms-hsmm@yahoogroups.com > Date: Mon, 14 Jun 2004 20:47:10 +0000 > > >Lee, > > > >If I understand your list correctly, you are assuming that we have a cat 5 connection to WayPort? This is not the case; we will have a wireless connection (antenna on HamCom roof to WayPort AP), and that's the problem. We don't know of a box, other than a PC, that will let us connect to WayPort's Cisco AP. > > > >But still, that's an interesting idea-if we could acquire a cat 5 connection to WayPort inside the hotel, and they would let us run that cable out into the parking lot... > > > >73, > > > >Bob K5WO > > > > > >> > >> Finally found the problem with my mail -- > >> > >> 1. Wayport to cat 5 to WRT54G > >> 2. Bridge BEFW11s4 to cat 5 to WAP11 > >> 3. Wireless card to laptop > >> > >> /lee - K5UN > >> > >> > >> ---------- Original Message ---------- > >> From: "Brett Neilson" > >> Reply-To: ntms-hsmm@yahoogroups.com > >> Date: Mon, 14 Jun 2004 11:01:59 -0500 > >> > >> > > >> > > >> > > >> > > >> >To connect multiple people to the Wayport network you will require 2 AP's.
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> >> >To visit your group on the web, go to:
> >> > >> href="http://groups.yahoo.com/group/ntms-hsmm/">http://groups.yahoo.com/group/nt
> >> ms-hsmm/
> >> >
> >> >To unsubscribe from this group, send an email to:
> >> >ntms-hsmm-unsubscribe@yahoogroups.com
> >> >
> >> >Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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>> href="http://us.ard.yahoo.com/SIG=129beho7j/M=298184.5022502.6152625.3001176/D=g > >>
roups/S=1705644089:HM/EXP=1087315332/A=2164338/R=0/SIG=11ed4vqbv/*http://www.net > >>

flix.com/Default?mqso=60183349" alt=""> >>
src="http://us.a1.yimg.com/us.yimg.com/a/ne/netflix/yhoo0504_b_300250a052604.gif > >> "
alt="click here" width="300" height="250" border="0">
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>> src="http://us.adserver.yahoo.com/l?M=298184.5022502.6152625.3001176/D=groups/S= > >>
:HM/A=2164338/rand=523756426">
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> >> > > >> >
- To visit your group on the web, go to:
>> href="http://groups.yahoo.com/group/ntms-hsmm/">http://groups.yahoo.com/group/nt > >>
ms-hsmm/
> >> >
- To unsubscribe from this group, send an email to:
>> href="mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe">ntms-hsm > >>
m-unsubscribe@yahoogroups.com
> >> >
- Your use of Yahoo! Groups is subject to the >>
href="http://docs.yahoo.com/info/terms/">Yahoo! Terms of Service. > >> > > >> > > >> > > >>
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_____ > >> Sent via the WebMail
system at mail.hf.org > >> > >> > >> > >> > >> > >> > >> > >> > >> > >> > >> Yahoo! Groups Links
> >> > >> > >> > >> > >> > >> > > > > > > > > > > >Yahoo! Groups Links > > > > > > > > > > > > > > >
> _____ > Sent via the WebMail
system at mail.hf.org > > > > > > > Yahoo! Groups Links > > > >

149. Re: [ntms-hsmm] Digest Number 47

Yahoo group: DAWG-HSMM
Date: 2004-06-15 04:02:51 UTC
From: Douglas Kilgore
Topic: 136 Message: 149

Do I remember that you installed an SMC card in the WET11? What type of connectors does it use? Can we borrow it for HamCom?

Doug KD5OUG

Randall Dunning wrote:
>
> - Bob wrote:
> >> Were probably going to use computers configured for 'internet sharing'
> >> to bring the service into the building, since the Wayport AP is a Cisco
> >> box and we have Linksys boxes, so I don't the WAP11 in AP Client mode
> >> is going to fly. But we're open to suggestions.
>
> Does anyone have a link or the information on how to make a Windows 95
> box do "internet sharing"?
>
> RD
>
> [No

150. Re: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-15 04:59:33 UTC
From: jbeadles@pobox.com
Topic: 113 Message: 150

Okedoke. We still need to figure out what specifically is needed to connect to the Wayport, though.

On 14 Jun 2004 at 11:01, Brett Neilson wrote:

> To connect multiple people to the Wayport network you will require 2 AP's.
>
> The first one needs to be running as a bridge (Wireless to Wired).
> Typically this AP would then be connected to a router. This setup works
> best with a broadband router such as a Linksys or Dlink. The Bridge AP is
> connected to the WAN port on the Router. One of the switch ports of the
> router is then connected to the a second AP. The second AP is the one
> everybody ois connected to.
>
> By doing this Wayport only sees the Router as being connected and everybody
> else behind it can have access via the second AP. (See attached)
>
>
> Brett Neilson
> brett@...
> http://www.brettneilson.com
>
> GPG Public Key ID: 0x69759F44
>
>
> -----Original Message-----
> From: jbeadles@...
> To: ntms-hsmm@yahoogroups.com
> Date: Mon, 14 Jun 2004 07:25:24 -0500
> Subject: Re: [ntms-hsmm] Ham-Com Net Snooping
>
> For the presenters, not that many. 2 or 3, If I remember correctly.
> I think you are right, a router running NAT should hide the IPs
> behind it, but not sure without testing.
>
> One of the things we had discussed doing in the past was putting up a
> web server in the convention center so that attendees could download
> the presentations directly. Are we still planning on doing that?
>
> On 14 Jun 2004 at 6:55, Bob and Debbie Kmak wrote:
>
> > John,
> >
> > I can install 2000 server if necessary. How many connections do you think
> > will be needed for the APRS and HSMM forums?

> > Also, if we put a router behind the win2000 box, will it really know how
> > many PCs are back there?
> >
> > Bob
> >
> >
> > ----- Original Message -----
> > From: <jbeadles@...>
> > To: <ntms-hsmm@yahoogroups.com>
> > Sent: Monday, June 14, 2004 1:42 AM
> > Subject: Re: [ntms-hsmm] Ham-Com Net Snooping
> >
> >
> > > We'll have to be careful about using internet sharing. Non-server
> > > class windows software will only allow 5 clients at a time.
> > >
> > > On 13 Jun 2004 at 15:06, Bob and Debbie Kmak wrote:
> > >
> > > > Ken,
> > > >
> > > > We found that we could access the WayPort wireless AP from the Windham
> > hotel
> > > > next to the convention center. It's a pay service, but pretty cheap
> > compared
> > > > to the alternatives. Were probably going to use computers configured
> for
> > > > 'internet sharing' to bring the service into the building, since the
> > Wayport
> > > > AP is a Cisco box and we have Linksys boxes, so I don't the WAP11 in
> AP
> > > > Client mode is going to fly. But we're open to suggestions.
> > > >
> > > > 73,
> > > >
> > > > Bob K5WO
> > > >
> > > > ----- Original Message -----
> > > > From: "Ken Patterson" <kenp@...>
> > > > To: <ntms-hsmm@yahoogroups.com>
> > > > Sent: Sunday, June 13, 2004 12:25 PM
> > > > Subject: RE: [ntms-hsmm] Ham-Com Net Snooping
> > > >
> > > >
> > > > > Bob, what was the outcome of the rooftop snooping trip?
> > > > >
> > > > > de Ken,
> > > > > N5EQT
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> Yahoo! Groups Sponsor
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> Yahoo! Groups Links
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> To visit your group on the web, go to:
> http://groups.yahoo.com/group/ntms-hsmm/
>
> To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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151. Re: [ntms-hsmm] Ham-Com Net Snooping

Yahoo group: DAWG-HSMM
Date: 2004-06-15 12:00:59 UTC
From: signup
Topic: 113 Message: 151

Well okie dokie then ... I have a room at the hotel and will bring a router. I'll see what I can do to get a signal out of the room. /lee - k5un ---------- Original Message ---------- From: "Bob and Debbie Kmak" Reply-To: ntms-hsmm@yahoogroups.com Date: Mon, 14 Jun 2004 22:01:46 -0500 > > > > >Lee,
>
>A good suggestion at that. I'm not knocking it down, but I don't think any
>of the windows open. And they are coated with metallic-reflective stuff so
>an antenna taped to the inside of the window might not work so good... A few
>weeks ago, the desk clerk told us that both wired and wireless connections
>are available in the hotel.
>
>Actually, from the way I had to point a dish mounted on the (low) convention
>center roof, I'd just about swear that the source of what we are receiving
>is on or near the roof of the hotel, which doesn't make a lot of sense if
>the goal is to provide access to people INSIDE the hotel. But maybe they
>want to make it available to patrons in the parking lot too.
>
>So many questions...
>
>Bob
>
>
>----- Original Message -----
>From: "signup"
>To:
>Sent: Monday, June 14, 2004 9:46 PM
>Subject: Re: [ntms-hsmm] Ham-Com Net Snooping
>
>
>
>Hi,
>
>Yes, I am assuming that there will be a cat 5 connection in a room and most
>rooms have a window, so a WAP at the window would provide a signal to roof
>and a bridge on the roof could feed a wap to the convention center .. maybe
>more hardware than everyone was thinking of ...
>
>Just a suggestion ...
>
>/lee k5un
>
>---------- Original Message ----------
>From: bdkmak@...
>Reply-To: ntms-hsmm@yahoogroups.com
>Date: Mon, 14 Jun 2004 20:47:10 +0000

>
>>Lee,
>>
>>If I understand your list correctly, you are assuming that we have a cat 5
>connection to WayPort? This is not the case; we will have a wireless
>connection (antenna on HamCom roof to WayPort AP), and that's the problem.
>We don't know of a box, other than a PC, that will let us connect to
>WayPort's Cisco AP.
>>
>>But still, that's an interesting idea-if we could acquire a cat 5
>connection to WayPort inside the hotel, and they would let us run that cable
>out into the parking lot...
>>
>>73,
>>
>>Bob K5WO
>>
>>
>>>
>>> Finally found the problem with my mail --
>>>
>>> 1. Wayport to cat 5 to WRT54G
>>> 2. Bridge BEFW11s4 to cat 5 to WAP11
>>> 3. Wireless card to laptop
>>>
>>> /lee - K5UN
>>>
>>>
>>> ---------- Original Message ----------
>>> From: "Brett Neilson"
>>> Reply-To: ntms-hsmm@yahoogroups.com
>>> Date: Mon, 14 Jun 2004 11:01:59 -0500
>>>
>>> >
>>> >
>>> >
>>> >
>>> >To connect multiple people to the Wayport network you will require 2
>AP's.

>>> >

>>> >The first one needs to be running as a bridge (Wireless to Wired).

>>> >Typically this AP would then be connected to a router. This setup works
>

>>> >best with a broadband router such as a Linksys or Dlink. The Bridge AP
>is

>>> >connected to the WAN port on the Router. One of the switch ports of the
>

>>> >router is then connected to the a second AP. The second AP is the one
>

>>> >everybody ois connected to.

>>> >

>>> >By doing this Wayport only sees the Router as being connected and
>everybody
>>>

>>> >else behind it can have access via the second AP. (See attached)

>>> >

>>> >

>>> >Brett Neilson

>>> >brett@...

>>> > >href="http://www.brettneilson.com">http://www.brettneilson.com

>>> >

>>> >GPG Public Key ID: 0x69759F44

>>> >

>>> >

>>> >-----Original Message-----

>>> >From: jbeadles@pobox.com

>>> >To: ntms-hsmm@yahoogroups.com

>>> >Date: Mon, 14 Jun 2004 07:25:24 -0500

>>> >Subject: Re: [ntms-hsmm] Ham-Com Net Snooping

>>> >

>>> >For the presenters, not that many. 2 or 3, If I remember correctly.

>>> >I think you are right, a router running NAT should hide the IPs

>>> >behind it, but not sure without testing.

>>> >

>>> >One of the things we had discussed doing in the past was putting up a
>

>>> >web server in the convention center so that attendees could download
>

>>> >the presentations directly. Are we still planning on doing that?

>>> >

>>> >On 14 Jun 2004 at 6:55, Bob and Debbie Kmak wrote:

>>> >

>>> >> John,

>>> >>

>>> >> I can install 2000 server if necessary. How many connections do you
>think

>>> >> will be needed for the APRS and HSMM forums?

>>> >> Also, if we put a router behind the win2000 box, will it really know
>how

>>> >> many PCs are back there?

>>> >>

>>> >> Bob

>>> >>

>>> >>

>>> >> ----- Original Message -----

>>> >> From:

>>> >> To:

>>> >> Sent: Monday, June 14, 2004 1:42 AM

>>> >> Subject: Re: [ntms-hsmm] Ham-Com Net Snooping

>>> >>

>>> >>

>>> >> > We'll have to be careful about using internet sharing.
>Non-server

>>> >> > class windows software will only allow 5 clients at a time.

>>> >> >

>>> >> > On 13 Jun 2004 at 15:06, Bob and Debbie Kmak wrote:

>>> >> >

>>> >> > > Ken,

>>> >> > >

>>> >> > > We found that we could access the WayPort wireless AP from the
>>> Windham

>>> >> hotel

>>> >> > > next to the convention center. It's a pay service, but pretty
>cheap

>>> >> compared

>>> >> > > to the alternatives. Were probably going to use computers
>configured

>>> >for

>>> >> > > 'internet sharing' to bring the service into the building, since
>the

>>> >> Wayport

>>> >> > > AP is a Cisco box and we have Linksys boxes, so I don't the WAP11
>in

>>> >AP

>>> >> > > Client mode is going to fly. But we're open to suggestions.

>>> >> > >

>>> >> > > 73,

>>> >> > >

>>> >> > > Bob K5WO

>>> >> > >

>>> >> > > ----- Original Message -----

>>> >> > > From: "Ken Patterson"

>>> >> > > To:

>>> >> > > Sent: Sunday, June 13, 2004 12:25 PM

>>> >> > > Subject: RE: [ntms-hsmm] Ham-Com Net Snooping

>>> >> > >

>>> >> > >

>>> >> > > > Bob, what was the outcome of the rooftop snooping trip?

>>> >> > > >

>>> >> > > > de Ken,

>>> >> > > > N5EQT

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>>> >Yahoo! Groups Sponsor

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>>> >Yahoo! Groups Links

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>>> >To visit your group on the web, go to:

>>> > >>>
>href="http://groups.yahoo.com/group/ntms-hsmm/">http://groups.yahoo.com/grou
>p/nt
>>> ms-hsmm/

>>> >

>>> >To unsubscribe from this group, send an email to:

>>> >ntms-hsmm-unsubscribe@yahoogroups.com

>>> >

>>> >Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>

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>>> >[Non-text portions of this message have been removed]

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>href="http://us.ard.yahoo.com/SIG=129beho7j/M=298184.5022502.6152625.3001176
>/D=g
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>roups/S=1705644089:HM/EXP=1087315332/A=2164338/R=0/SIG=11ed4vqbv/*http://www
>.net
>>> flix.com/Default?mqso=60183349" alt=""> >>>
>src="http://us.a1.yimg.com/us.yimg.com/a/ne/netflix/yhoo0504_b_300250a052604
>.gif
>>> " alt="click here" width="300" height="250"
>border="0">

>>>

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>>>
>src="http://us.adserver.yahoo.com/l?M=298184.5022502.6152625.3001176/D=group
>s/S=
>>> :HM/A=2164338/rand=523756426">

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>>> >Yahoo! Groups Links

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>>> >
- To visit your group on the web, go to:
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>href="http://groups.yahoo.com/group/ntms-hsmm/">http://groups.yahoo.com/grou
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>p/nt
>>> ms-hsmm/

>>> >
- To unsubscribe from this group, send an email to:
>>>
>href="mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe">ntms
>-hsm
>>> m-unsubscribe@yahoogroups.com

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- Your use of Yahoo! Groups is subject to the >>>
href="http://docs.yahoo.com/info/terms/">Yahoo! Terms of Service.
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>>> ________________________________________________________________
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> > > > > > > >
> >Yahoo! Groups Links
> >
- To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/

>
- To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com
>
- Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
(http://docs.yahoo.com/info/terms/). > > > > > > > > > >
_____ Sent via the WebMail
system at mail.hf.org

152. Hamcom HSMM presentations - update

Yahoo group: DAWG-HSMM
Date: 2004-06-15 16:54:45 UTC
From: J. Beadles
Topic: 152 Message: 152

N5PYK's Intro to Microwave propagation and an initial draft of my HSMM for Emcomm and Public Service presentation are up at:
http://www.n5oom.org/2004_hamcom/presentations.htm

Please feel free to make editorial and content comments

153. Re: [ntms-hsmm] Hamcom HSMM presentations - update

Yahoo group: DAWG-HSMM
Date: 2004-06-16 02:17:22 UTC
From: N5TIM
Topic: 152 Message: 153

One thing about using with skywarn is that Dallas county does not direct spotters to positions. I know that Collin County usually does this. Could put net control in some sort of liability.

I think the Dallas area has not matured enough with APRS at events. Other parts of the country seem to have a better "plan" when it comes to events and APRS.

I like the presentation but we still need to work on using APRS in ECOMM situations. One issue that has been discussed at the RACES council is how to identify spotters. (separate from the rest of the icons) The other is use in the EOCs. I'm pushing that item.

See you at HamCom.

73, John

At 11:54 AM 6/15/2004, you wrote:

>N5PYK's Intro to Microwave propagation and an initial draft of my
>HSMM for Emcomm and Public Service presentation are up at:
>http://www.n5oom.org/2004_hamcom/presentations.htm
>
>Please feel free to make editorial and content comments
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>Yahoo! Groups Links
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>---
>Incoming mail is certified Virus Free.
>Checked by AVG anti-virus system (http://www.grisoft.com).
>Version: 6.0.690 / Virus Database: 451 - Release Date: 5/22/2004

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).

Version: 6.0.690 / Virus Database: 451 - Release Date: 5/22/2004

[Non-text portions of this message have been removed]

154. Re: [ntms-hsmm] Hamcom HSMM presentations - update

Yahoo group: DAWG-HSMM
Date: 2004-06-16 05:23:52 UTC
From: jbeadles@pobox.com
Topic: 152 Message: 154

Good comments. I'll work that in. Thanks!

On 15 Jun 2004 at 21:17, N5TIM wrote:

> One thing about using with skywarn is that Dallas county does not direct
> spotters to positions. I know that Collin County usually does this. Could
> put net control in some sort of liability.
>
> I think the Dallas area has not matured enough with APRS at events. Other
> parts of the country seem to have a better "plan" when it comes to events
> and APRS.
>
> I like the presentation but we still need to work on using APRS in ECOMM
> situations. One issue that has been discussed at the RACES council is how
> to identify spotters. (separate from the rest of the icons) The other is
> use in the EOCs. I'm pushing that item.
>
> See you at HamCom.
>
> 73, John
>
> At 11:54 AM 6/15/2004, you wrote:
>
> >N5PYK's Intro to Microwave propagation and an initial draft of my
> >HSMM for Emcomm and Public Service presentation are up at:
> >http://www.n5oom.org/2004_hamcom/presentations.htm
> >
> >Please feel free to make editorial and content comments
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> >Yahoo! Groups Links
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> >---
> >Incoming mail is certified Virus Free.
> >Checked by AVG anti-virus system (http://www.grisoft.com).
> >Version: 6.0.690 / Virus Database: 451 - Release Date: 5/22/2004

>
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> ---
> Outgoing mail is certified Virus Free.
> Checked by AVG anti-virus system (http://www.grisoft.com).
> Version: 6.0.690 / Virus Database: 451 - Release Date: 5/22/2004
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>
> [Non-text portions of this message have been removed]
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155. ECOM WET11 Upgradt to the Senao / Engenius 2511CD Plus EXT 2

Yahoo group: DAWG-HSMM
Date: 2004-06-23 15:21:45 UTC
From: Randall Dunning
Topic: 155 Message: 155

Hello Walt,

I am not likely to get around to doing the photo shoot until after Field Day so stay
tuned. In the mean time here is some additional info I used for my upgrade:

I used the Engenius / Senao 2511CD Plus EXT 2 and the O'Reilly WET-11 Hack Instructions
See:
http://www.oreillynet.com/pub/a/wireless/excerpt/wireless_hacks/?page=last

Here are some photos of the WET-11 inside from a French site:
http://www.wireless-fr.org/communaute/?WET11%20%E0%20nu

The one innovation I added was to replace the Linksys supplied card standoffs (they
are too long with the Senao card) with standard Radio Shack PCB standoffs (black
plastic model). These are the perfect length and support the card with gentle pressure
when the case is closed. Note that you cannot use the supplied screw to attach the
card, this must be returned to the junk box. Thus this becomes a passive pillar to
provide a measure of support.

The typical solution is to remove the standoffs supplied by Linksys entirely and leave
the card hanging on the PCMCIA connection pins. IMHO this is fine for a home unit but
not good for an ECOM unit that is subject to more potential abuse in the field. I will
eventually explore using double sided tape or rubber foam inserts to provide additional
support for the Senao card.

73,

RD

"Nearly all men can stand adversity, but if you want to test a man's character, give him power."
--Abraham Lincoln

-----Original Message-----
From: Walt DuBose [mailto:dubose@...]
Sent: Tuesday, June 22, 2004 8:16 PM

To: kc5qhh@...
Subject: RE: WET11

Randall,

Good to meet you at HamCom.

I am inquiring about the internal pictures of your WET11 that you put the 200mw card in. What card did you use?

Hope you can make the Austin SummerFest in August.

73,

Walt/K5YFW.

PS, Hope you are on the ARRL HSMM List at:
http://listserv.tamu.edu/archives/arrl-80211b.html

You can subscribe to our ARRL IEEE 802.11b Mail List at Texas A & M University. To subscribe, go to URL:
http://listserv.tamu.edu/archives/arrl-80211b.html
and select Join or leave the list (or change settings) or, send an E-Mail to listserv@... and in the BODY put SUBSCRIBE arrl-80211b firstname lastname or SUBSCRIBE arrl-80211b firstname lastname-callsign.

[Non-text portions of this message have been removed]

156. Hamcom appreciation

Yahoo group: DAWG-HSMM
Date: 2004-06-23 17:12:42 UTC
From: Joe - N5PYK
Topic: 156 Message: 156

Hello,

I'd like to say a special thank you and recognize several of our members who presented at Hamcom 2004. This is also echoed by the organizing committee of Hamcom. After all, those that volunteer make this organization successful!

NM5M - Eric

WA5VJB - Kent

WA5JAT - Jim

WA5YWC - Bob

N5OOM - John

N5JXS - Gerry

N5OLF - Jeff

KC7IIB - Brett

WW2R - Dave

Additionally, a couple other folks were involved with 802.11 internet on-site

K5WO - Bob

KD5OUG - Doug

The MTT and Hamcom Presentation

W5LUA - Al

WA5YWC - Bob

And those who helped man the NTMS table

WA5JAT - Jim

WA5TKU - Wes

AF8Z - Chuck

W5ETG - Terry

For all that are willing, if you would like your electronically formatted presentations to be put up on the web site, please let me know.

Joe-N5PYK

President, NTMS

157. Free TXDOT Wireless

Yahoo group: DAWG-HSMM
Date: 2004-06-23 18:39:26 UTC
From: Joe - N5PYK
Topic: 157 Message: 157

Check this out:

Wireless hotspots on texas highways
http://www.dot.state.tx.us/txdotnews/026-2004.htm

Wes Atchison

Senior Compliance Engineer

AFC- The Acronym for Access

Phone: 817-575-2306

Fax: 817-575-2580

wes.atchison@...

www.afc.com

158. [Fwd: Field Day Invitation]

Yahoo group: DAWG-HSMM
Date: 2004-06-24 02:23:05 UTC
From: Douglas Kilgore
Topic: 158 Message: 158

[Non-text portions of this message have been removed]

159. Re: Field Day Invitation

Yahoo group: DAWG-HSMM
Date: 2004-06-24 13:13:05 UTC
From: Douglas Kilgore
Topic: 159 Message: 159

> Jonathan Sennetti wrote:
>
> --My apologies in advance if you receive duplicates of this email--
>
> The Nortel Amateur Radio Club invites local hams in the Richardson
> area to come join our "Field Day Fun" this coming weekend. The Nortel
> ARC will operate from the Nortel Galatyn campus as a Class 2A station
> using the call sign NT5NT, with transmit capabilities from HF to
> 10GHz. Just like last year, our entire communications setup will be
> located in the vacated parking garage on the SW corner of Lookout and
> Glenville Drive (the antennas are on the top level and the radio
> tables are on the 3rd level).
>
> If you're interested joining us and you'd like to operate a radio for
> a shift, please let me know your preferred time so I can get you on
> the schedule. Daytime, evening, overnight - we need extra operators
> anytime! Even if you can't stay long, we encourage everyone to stop
> by for a while and check out our setup. [Note: If the garage is
> chained off, just park in the spaces out front and walk up to the 3rd
> level]. We will monitor the NT5NT repeater 443.325+ 110.9 as a
> talk-in for questions. Or feel free to email K5VX for more
> information.
>
> Happy Field Day & 73,
> --
> Jonathan Sennetti K5VX
> NARC Communications Dir.
> Phone: 972-685-5169 / ESN 445-5169
> Email: sennetti@... -or- k5vx@...

160. RE: ECOM WET11 Upgradt to the Senao / Engenius 2511CD Plus EXT 2

Yahoo group: DAWG-HSMM
Date: 2004-06-24 14:35:21 UTC
From: Randall Dunning
Topic: 155 Message: 160

Hello Walt,

Walt wrote:

>> Is that what I want (URL to ebay auction deleted)

Yes!

That is the Senao/Engenious card. The EXT 2 is the important part of the label. (Senao also has one that has a fixed antenna and no antenna ports which will not work in your application.)

The one pictured in the auction has the 2 antenna ports and no internal antenna. Remember, when you hold the card with the antenna ports to your right and the purple lable facing you, the main antenna port is on the top. This card uses an RP-MMCX jack which mates with the Linksys WET-11 v1.x antenna feed cable going from the card to the RP-SMA connector.
The SMC 200mw card uses an MMCX which will not work with the WET-11 v1.x which is a pity.
The SMC2532W-B card (appears to be the same as the Demarc Technologies 200mw PCMCIA) is a great little card with a very senastive receiver.

See:
http://www.smc.com/index.cfm?action=products_show_product&productcode=SMC2532W-B

You should probably go to http://www.demarctech.com/techsupport/downloads.html and make sure you have the latest firmware on the card since the cards on "everyone bids aganist you" can be of uncertain vintage. Also, the Seano wlan application does not have an "uninstall" that I can find, so that can be a problem if you have other wlan applications installed for Prism Chipset radio cards. The latest firmware for the Prism cards is 1.7.4.
(see: http://www.demarctech.com/downloads/reliawave-zm/DemarcFW1.7.4.zip)

RD

"Nearly all men can stand adversity, but if you want to test a man's character, give him power."
--Abraham Lincoln

[Non-text portions of this message have been removed]

161. Re: [ntms-hsmm] RE: ECOM WET11 Upgradt to the Senao / Engenius 2511CD Plus EXT 2

Yahoo group: DAWG-HSMM
Date: 2004-06-24 15:21:50 UTC
From: Bill K2CHP
Topic: 155 Message: 161

Randall,
Have you checked the "add/remove" section in the Control panel in Windows? Look to see if IEEE 802.11b WLAN Network Adapter for Windows is in the program list as that may be the one for the Senao Engenius. I have not uninstalled it yet but the mentioned program above is what I'd select to remove from the PC.

I agree on obtaining the latest firmware for the Senao Engenius cards as the original is basically a dead stick.

Here's my photo album with some shots of the card and related gear.

http://community.webshots.com/user/k2chp

W Miller K2CHP
Richardson TX

[Non-text portions of this message have been removed]

162. 802.11i Finalized

Yahoo group: DAWG-HSMM
Date: 2004-06-25 20:29:55 UTC
From: Brett Neilson
Topic: 159 Message: 162

It's here -

http://www.wi-fiplanet.com/news/article.php/3373441

Brett Neilson
brett@...
http://www.brettneilson.com

GPG Public Key ID: 0x69759F44

[Non-text portions of this message have been removed]

163. Fab-corp sale

Yahoo group: DAWG-HSMM
Date: 2004-06-30 14:12:38 UTC
From: J. Beadles
Topic: 163 Message: 163

Fleeman, Anderson and Bird is running a pretty good July 4 sale on 802.11x gear right now. If you want that 15 db omni, now might be the time.

164. Fab-corp sale

Yahoo group: DAWG-HSMM
Date: 2004-06-30 14:17:08 UTC
From: J. Beadles
Topic: 163 Message: 164

Oops, should have posted the link...

http://www.fab-corp.com/

165. Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2004-06-30 20:17:57 UTC
From: J. Beadles
Topic: 165 Message: 165

The Plano Balloon Festival will run on September 17, 18 and 19. The event will run for all three days, with two launches per day, one in the morning and one in the evening. I would like to have 802.11b coverage at

1. The launch field
2. The recovery staging site, either:
a. The Garden Ridge Mall parking lot
b. Or out at Popeyes Chicken at Jupiter and 15th
3. The Southfork hotel (northbound Central Expressway N of 15th), formerly the Harvey Hotel
4. The refuelling area (location?)

Tony Campbell W5ADC has obtained a couple of military surplus 35 ft mast units that should work really well for remote bridge radios. The masts are part of the AS-2236 VHF log periodic antenna system. These are available from Fair Radio Sales (http://www.fairradio.com/). They can go 20 or 25 ft without being guyed, or 35 ft with guys. Additional mast sections and guy rings are available on ebay, I wonder if they can go higher with more guys... Looked really good at the PARK field day!

These masts are pretty nifty because they come with a wide footed clamping tripod. You can insert mast sections from the bottom of the tripod and push it up. Nifty! Good find, Tony! These things go for $125 when purchased with a used antenna. It looks like we'll have 4 of them available for us, so we might actually be able to cover the whole area.

This is an event where it would be nifty to deploy webcams. If we could get webcams out to cover the vendor area and the missing child booths, I think we'd have something.

Last year I covered most of the launch field, if poorly, with a single BEFW11S4. A higher powered Senao access point in the right location should probably cover the whole area easily.

166. Re: [ntms-hsmm] Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2004-07-01 01:53:44 UTC
From: Bill K2CHP
Topic: 165 Message: 166

802.11b at the Plano Balloon Festival count me in
John. I can do webcamming either in the field or at
the launch area if needed.

This will allow me plenty of time to get my
configuration all tuned up for the three days.

=====
W Miller K2CHP
Richardson TX

167. WiFi Blocking Wallpaper?

Yahoo group: DAWG-HSMM
Date: 2004-07-01 18:48:57 UTC
From: Brett Neilson
Topic: 165 Message: 167

Interesting product...

http://news.com.com/Wallpaper+designed+to+protect+Wi-Fi+networks/2100-7347_3-5241808.html?tag=cd.hed

Brett Neilson - KC7IIB
brett@...
http://www.brettneilson.com

GPG Public Key ID: 0x69759F44

[Non-text portions of this message have been removed]

168. WTS: 24dbi Die Cast Directional Antenna for 2.4G WiFi

Yahoo group: DAWG-HSMM
Date: 2004-07-09 07:19:17 UTC
From: w5evh
Topic: 168 Message: 168

Wanting to Sell:

1 24 dbi Die Cast Directional Antenna for 2.4G WiFi. This is a GREAT antenna. I have installed these for other projects.

I bought this antenna for a project, the project never happen and now I am stuck with this antenna. I have put it together and I know it works. I originally bought it from Fab-Corp for about $70 plus shipping (about $15). This antenna has never been put into production, nor ever spent a night outside. I would consider this antenna Brand New with out the box. MINT!

I am asking $60 out the door. Local pickup only. Reason I am selling is because I am moving and I need to get rid of things I do not need and I really need money for moving.

If you are intrested, please send me email to (bob at w5evh dot com).

Must sell fast.

I am also on Yahoo Instant Messenger with user id of W5EVH

73
boB

169. Maxrad 8db Omni antennas

Yahoo group: DAWG-HSMM
Date: 2004-07-12 14:19:20 UTC
From: J. Beadles
Topic: 169 Message: 169

All,

A buddy of N0XLR wants to get rid of 20 Maxrad 8db Omni antennas. These antennas stand 17" tall, are 2.4GHz to 2.5GHZ and will work on 802.11b / 802.11g. He wants $20 each and wants to get rid of them in bulk, so I'll coordinate the group buy. Anybody interested please contact me.

beadles@...
972-685-8713 (daytime)
972-898-0843 (evenings)

170. RE: [ntms-hsmm] Maxrad 8db Omni antennas

Yahoo group: DAWG-HSMM
Date: 2004-07-13 01:48:46 UTC
From: Anthony 'Tony' Campbell
Topic: 169 Message: 170

Sign me up for at least 2 ea.

Tony
-----Original Message-----
From: J. Beadles [mailto:jbeadles@...]
Sent: Monday, July 12, 2004 9:19 AM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Maxrad 8db Omni antennas

All,

A buddy of N0XLR wants to get rid of 20 Maxrad 8db Omni antennas.
These antennas stand 17" tall, are 2.4GHz to 2.5GHZ and will work on
802.11b / 802.11g. He wants $20 each and wants to get rid of them in
bulk, so I'll coordinate the group buy. Anybody interested please
contact me.

beadles@...
972-685-8713 (daytime)
972-898-0843 (evenings)

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[Non-text portions of this message have been removed]

171. RE: [ntms-hsmm] Maxrad 8db Omni antennas

Yahoo group: DAWG-HSMM
Date: 2004-07-13 05:46:05 UTC
From: jbeadles@pobox.com
Topic: 169 Message: 171

You got it!

On 12 Jul 2004 at 20:48, Anthony 'Tony' Campbell wrote:

> Sign me up for at least 2 ea.
>
> Tony
> -----Original Message-----
> From: J. Beadles [mailto:jbeadles@...]
> Sent: Monday, July 12, 2004 9:19 AM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Maxrad 8db Omni antennas
>
>
> All,
>
> A buddy of N0XLR wants to get rid of 20 Maxrad 8db Omni antennas.
> These antennas stand 17" tall, are 2.4GHz to 2.5GHZ and will work on
> 802.11b / 802.11g. He wants $20 each and wants to get rid of them in
> bulk, so I'll coordinate the group buy. Anybody interested please
> contact me.
>
> beadles@...
> 972-685-8713 (daytime)
> 972-898-0843 (evenings)
>
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> b.. To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

>
>
>
> [Non-text portions of this message have been removed]
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172. RE: [ntms-hsmm] Maxrad 8db Omni antennas

Yahoo group: DAWG-HSMM
Date: 2004-07-13 13:26:34 UTC
From: Tom Bresee
Topic: 169 Message: 172

I would be interested in one as well if possible.

Tom Bresee
KD5YBI
214.679.6134

--- jbeadles@... wrote:
> You got it!
>
> On 12 Jul 2004 at 20:48, Anthony 'Tony' Campbell wrote:
>
> > Sign me up for at least 2 ea.
> >
> > Tony
> > -----Original Message-----
> > From: J. Beadles [mailto:jbeadles@...]
> > Sent: Monday, July 12, 2004 9:19 AM
> > To: ntms-hsmm@yahoogroups.com
> > Subject: [ntms-hsmm] Maxrad 8db Omni antennas
> >
> >
> > All,
> >
> > A buddy of N0XLR wants to get rid of 20 Maxrad 8db Omni antennas.
> > These antennas stand 17" tall, are 2.4GHz to 2.5GHZ and will work on
> > 802.11b / 802.11g. He wants $20 each and wants to get rid of them in
> > bulk, so I'll coordinate the group buy. Anybody interested please
> > contact me.
> >
> > beadles@...
> > 972-685-8713 (daytime)
> > 972-898-0843 (evenings)
> >
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> > a.. To visit your group on the web, go to:
> > http://groups.yahoo.com/group/ntms-hsmm/
> >
> > b.. To unsubscribe from this group, send an email to:
> > ntms-hsmm-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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> >
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173. Re: Maxrad 8db Omni antennas

Yahoo group: DAWG-HSMM
Date: 2004-07-13 23:18:51 UTC
From: J. Beadles
Topic: 169 Message: 173

Gotcha.

--- In ntms-hsmm@yahoogroups.com, Tom Bresee <tom_bresee@y...> wrote:
>
> I would be interested in one as well if possible.
>
> Tom Bresee
> KD5YBI
> 214.679.6134
>
>

174. Re: Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2004-07-13 23:19:56 UTC
From: J. Beadles
Topic: 165 Message: 174

All,

We now have an HSMM field marshall for the balloon Festival. Tony Campbell W5ADC has volunteered to project manage this. Thanks Tony!

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
> The Plano Balloon Festival will run on September 17, 18 and 19.
The
> event will run for all three days, with two launches per day, one
in
> the morning and one in the evening. I would like to have 802.11b
> coverage at
>
> 1. The launch field
> 2. The recovery staging site, either:
> a. The Garden Ridge Mall parking lot
> b. Or out at Popeyes Chicken at Jupiter and 15th
> 3. The Southfork hotel (northbound Central Expressway N of 15th),
> formerly the Harvey Hotel
> 4. The refuelling area (location?)
>
> Tony Campbell W5ADC has obtained a couple of military surplus 35 ft
> mast units that should work really well for remote bridge radios.
> The masts are part of the AS-2236 VHF log periodic antenna system.
> These are available from Fair Radio Sales
> (http://www.fairradio.com/). They can go 20 or 25 ft without being
> guyed, or 35 ft with guys. Additional mast sections and guy rings
> are available on ebay, I wonder if they can go higher with more
> guys... Looked really good at the PARK field day!
>
> These masts are pretty nifty because they come with a wide footed
> clamping tripod. You can insert mast sections from the bottom of
the
> tripod and push it up. Nifty! Good find, Tony! These things go
for
> $125 when purchased with a used antenna. It looks like we'll have
4
> of them available for us, so we might actually be able to cover the
> whole area.
>
> This is an event where it would be nifty to deploy webcams. If we
> could get webcams out to cover the vendor area and the missing
child
> booths, I think we'd have something.
>

> Last year I covered most of the launch field, if poorly, with a
> single BEFW11S4. A higher powered Senao access point in the right
> location should probably cover the whole area easily.

175. RE: [ntms-hsmm] Maxrad 8db Omni antennas

Yahoo group: DAWG-HSMM
Date: 2004-07-13 23:34:04 UTC
From: Dee/Ham
Topic: 169 Message: 175

I would like one please. Thanks!

Dee/N5UIG
972.423.3454

-----Original Message-----
From: J. Beadles [mailto:jbeadles@...]
Sent: Monday, July 12, 2004 9:19 AM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Maxrad 8db Omni antennas

All,

A buddy of N0XLR wants to get rid of 20 Maxrad 8db Omni antennas. These antennas stand 17" tall, are 2.4GHz to 2.5GHZ and will work on 802.11b / 802.11g. He wants $20 each and wants to get rid of them in bulk, so I'll coordinate the group buy. Anybody interested please contact me.

beadles@...
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972-898-0843 (evenings)

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<http://us.adserver.yahoo.com/l?M=295196.4901138.6071305.3001176/D=groups/S=:HM/A=2128215/rand=819442711>

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<http://docs.yahoo.com/info/terms/> Service.

[Non-text portions of this message have been removed]

176. Re: [ntms-hsmm] Re: Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2004-07-18 15:58:02 UTC
From: Brett Neilson
Topic: 165 Message: 176

Hello all,

I had some free time yesterday and did some HSMM testing on the launch field.

I placed an AP in the community college parking lot that overlooks the field. The AP was running an external Omni and was on a mast about 7 ft off the ground and battery powered. I could easily connect to the AP from all location on the launch field, as well as the vendor area and the area where net control was last year.

I am thinking that we could do the same uplink (same location) we did last year, and then link to the top of the hill. People would be able to connect to the hill AP using nothing more than a wireless card (no external antenna needed).

The only issue will be getting the single parking space on the hill to allow for the AP, as well as securing it enough that nobody has to be posted there.

Brett Neilson - KC7IIB
brett@...
http://www.brettneilson.com

GPG Public Key ID: 0x69759F44

-----Original Message-----
From: "J. Beadles" <jbeadles@...>
To: ntms-hsmm@yahoogroups.com
Date: Tue, 13 Jul 2004 23:19:56 -0000
Subject: [ntms-hsmm] Re: Plano Balloon Festival

All,

We now have an HSMM field marshall for the balloon Festival. Tony Campbell W5ADC has volunteered to project manage this. Thanks Tony!

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
> The Plano Balloon Festival will run on September 17, 18 and 19.
The
> event will run for all three days, with two launches per day, one
in
> the morning and one in the evening. I would like to have 802.11b
> coverage at
>
> 1. The launch field
> 2. The recovery staging site, either:

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> 3. The Southfork hotel (northbound Central Expressway N of 15th),
> formerly the Harvey Hotel
> 4. The refuelling area (location?)
>
> Tony Campbell W5ADC has obtained a couple of military surplus 35 ft
> mast units that should work really well for remote bridge radios.
> The masts are part of the AS-2236 VHF log periodic antenna system.
> These are available from Fair Radio Sales
> (http://www.fairradio.com/). They can go 20 or 25 ft without being
> guyed, or 35 ft with guys. Additional mast sections and guy rings
> are available on ebay, I wonder if they can go higher with more
> guys... Looked really good at the PARK field day!
>
> These masts are pretty nifty because they come with a wide footed
> clamping tripod. You can insert mast sections from the bottom of
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> Last year I covered most of the launch field, if poorly, with a
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> location should probably cover the whole area easily.

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[Non-text portions of this message have been removed]

177. RE: [ntms-hsmm] Re: Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2004-07-18 16:27:26 UTC
From: Anthony 'Tony' Campbell
Topic: 165 Message: 177

Sounds like an interesting test and some very helpful information. I will be sending out details in a few days about the goals and objectives for this exercise. Shortly after that we will begin the serious planning and testing for the event.

Thanks,

Tony
W5ADC
-----Original Message-----
From: Brett Neilson [mailto:hsmm@...]
Sent: Sunday, July 18, 2004 10:58 AM
To: ntms-hsmm@yahoogroups.com; J. Beadles
Subject: Re: [ntms-hsmm] Re: Plano Balloon Festival

Hello all,

I had some free time yesterday and did some HSMM testing on the launch field.

I placed an AP in the community college parking lot that overlooks the field. The AP was running an external Omni and was on a mast about 7 ft off
the ground and battery powered. I could easily connect to the AP from all location on the launch field, as well as the vendor area and the area where
net control was last year.

I am thinking that we could do the same uplink (same location) we did last year, and then link to the top of the hill. People would be able to connect
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needed).

The only issue will be getting the single parking space on the hill to allow
for the AP, as well as securing it enough that nobody has to be posted there.

Brett Neilson - KC7IIB
brett@...
http://www.brettneilson.com

GPG Public Key ID: 0x69759F44

-----Original Message-----
From: "J. Beadles" <jbeadles@...>
To: ntms-hsmm@yahoogroups.com
Date: Tue, 13 Jul 2004 23:19:56 -0000
Subject: [ntms-hsmm] Re: Plano Balloon Festival

All,

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> formerly the Harvey Hotel
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> Tony Campbell W5ADC has obtained a couple of military surplus 35 ft
> mast units that should work really well for remote bridge radios.
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> These are available from Fair Radio Sales
> (http://www.fairradio.com/). They can go 20 or 25 ft without being
> guyed, or 35 ft with guys. Additional mast sections and guy rings
> are available on ebay, I wonder if they can go higher with more
> guys... Looked really good at the PARK field day!
>
> These masts are pretty nifty because they come with a wide footed
> clamping tripod. You can insert mast sections from the bottom of the
> tripod and push it up. Nifty! Good find, Tony! These things go for
> $125 when purchased with a used antenna. It looks like we'll have 4
> of them available for us, so we might actually be able to cover the
> whole area.
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> This is an event where it would be nifty to deploy webcams. If we
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> Last year I covered most of the launch field, if poorly, with a

> single BEFW11S4. A higher powered Senao access point in the right
> location should probably cover the whole area easily.

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[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

178. [Fwd: Test Engineer]

Yahoo group: DAWG-HSMM
Date: 2004-07-21 03:07:18 UTC
From: Douglas Kilgore
Topic: 178 Message: 178

[Non-text portions of this message have been removed]

179. Plano Balloon Fest

Yahoo group: DAWG-HSMM
Date: 2004-07-23 01:31:45 UTC
From: radiorandr
Topic: 179 Message: 179

As you have probably gathered by reading some of the recent messages, the Plano Balloon Fest will be held September 17 - 19. I have agreed to be responsible for the coordination of the HSMM support for this event. I am looking to you and your friends to assist me with the planning and execution of this event. Last year we had some limited support but proved to ourselves and the event organizers it's worth.

The purpose of our support is to enhance the safety of the event for ourselves, the balloonist and the public. To provide this support we will have the following goals in the order listed below:

1. Provide near real-time graphical weather information.
2. Provide support for APRS application sharing.
3. Provide support for Webcams in key areas.
4. Practice deployment of HSMM networks in support of public service events.

We would like to provide coverage at the following locations. Again in general order of importance:

1. Launch Field
2. Recovery staging area. Either Garden Ridge Mall Parking Lot or Jupiter and 15th.
3. Southfork Hotel
4. Refuelling area

While there is reasonable time left, there is a lot to do. Below is a general schedule for preparations for the event. The dates will be finalized as soon as possible.

Aug 1 General Meeting (Location TBD)
Aug 2 - 8 Site Surveys
Aug 9 - 21 Network Design
Aug 22 - 28 Equipment Commitments
Aug 29 - 11 Subsystem Test (Location TBD)
Sept 12 System Test at Field
Sept 17 Setup at Field and Final Equipment Test (Morning)
Sept 17 - 19 Event Support
Sept 19 Equipment Removal (Evening)

We will need to have a few "all-hands" meeting during the planning stages, but I will try and keep these as few as possible. I would be interested hearing you if you are interested. While I would like to have initial meeting on August 1 (a Sunday), if this date is not good for most of you, just let me know and we can reschedule it.

Thanks,

Tony
W5ADC
972-342-1729

180. FEEDPOINT and Microwave Update

Yahoo group: DAWG-HSMM
Date: 2004-07-23 14:06:07 UTC
From: Joe - N5PYK
Topic: 180 Message: 180

Hi,
If you'd like to diseminate your enjoyment of 802.11 to a vast distribution in many countries, please consider contributing to the bi-monthly NTMS newsletter: FEEDPOINT. Kent Britain (feedpoint@...) is our long-serving editor. Let us know any projects that you are working on, descriptions of activities that you've done, theorizing about what might be possible with HSMM, or even how you put your portable tripod together. Anything that relates to microwave is acceptable!

The August edition goes out in about a week, so if you have something to contribute today, or write up in short order, I invite you to send it to Kent.

Please help spread the successes of 802.11 to the microwave community. It is your contribution that sparks interest in others!

Additionally, we are still looking for 802.11 speakers for microwave update. Take this opportunity to share the excitement of 802.11 with a good chunk of the big names in amateur microwave from all over the world.

If interested, contact me!

Joe
President, NTMS

181. FCC Allows Add-on Antennas But Read the Fine Print

Yahoo group: DAWG-HSMM
Date: 2004-07-23 21:23:53 UTC
From: Rusty Haddock
Topic: 181 Message: 181

FYI...

http://wifinetnews.com/archives/004024.html

--
_____ Rusty Haddock = KD4WLZ = rusty@...
|\/ o \ o **Out yonder in the Van Alstyne (TX) Metropolitan Area**
| (-< O o Microsoft is to software what
|/__V__/ McDonalds is to gourmet cooking

182. Re: [ntms-hsmm] FCC Allows Add-on Antennas But Read the Fine Print

Yahoo group: DAWG-HSMM
Date: 2004-07-24 00:51:52 UTC
From: jbeadles@pobox.com
Topic: 181 Message: 182

This caused me to go look - I think, as a result of this, Linksys now has 7db replacement omni antennas on their website.

On 23 Jul 2004 at 16:23, Rusty Haddock wrote:

> FYI...
>
> http://wifinetnews.com/archives/004024.html
>
> --
> _____ Rusty Haddock = KD4WLZ = rusty@...
> |\/ o \ o **Out yonder in the Van Alstyne (TX) Metropolitan Area**
> | (-< O o Microsoft is to software what
> |/__V__/ McDonalds is to gourmet cooking
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> Yahoo! Groups Links
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183. Re: [ntms-hsmm] FCC Allows Add-on Antennas But Read the Fine Print

Yahoo group: DAWG-HSMM
Date: 2004-07-24 13:51:46 UTC
From: Ron Cole
Topic: 181 Message: 183

The 7dB replacment Linksys Antennas at Best Buy...

Ron
N5HYH

--- jbeadles@... wrote:
> This caused me to go look - I think, as a result of
> this, Linksys now
> has 7db replacement omni antennas on their website.
>
> On 23 Jul 2004 at 16:23, Rusty Haddock wrote:
>
> > FYI...
> >
> > http://wifinetnews.com/archives/004024.html
> >
> > --
> > _____ Rusty Haddock = KD4WLZ =
> rusty@...
> > |\/ o \ o **Out yonder in the Van Alstyne
> (TX) Metropolitan Area**
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> cooking
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> Yahoo! Groups Links
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> ntms-hsmm-unsubscribe@yahoogroups.com
>
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=====
Ron

_____
Do you Yahoo!?
Yahoo! Mail - 50x more storage than other providers!
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184. Mesh Network - Paris, TX

Yahoo group: DAWG-HSMM
Date: 2004-07-26 14:41:49 UTC
From: Douglas Kilgore
Topic: 184 Message: 184

Welcome aboard.

I received the following URL from K5PSK regarding Mesh Networks:

http://www.locustworld.net/modules.php?op=modload&name=Downloads&file=index&req=viewdownload&cid=6

Keep us informed about your progress.

Doug Kilgore KD5OUG

"Yahoo! Groups Notification" wrote:
>
> Hello,
>
> The following person would like to join the ntms-hsmm group:
> Email address: n5jep <n5jep@...>
>
> Comment from user:
> I am setting up a mesh network here in Paris for our skywarn group and am
> looking for more information and support in hsmm networking.
>

185. Re: [ntms-hsmm] Mesh Network - Paris, TX

Yahoo group: DAWG-HSMM
Date: 2004-07-26 20:42:40 UTC
From: Brett Neilson
Topic: 184 Message: 185

MeshAP is a great application! Very little control, but a great application.

If we have some developers in the group it would be great to take it and modify it for HSMM use. If you aren't familiar with the app, it will basically turn any PC with a wireless card into an AP. Upon boot it will search for things like Internet access and other nodes and from that it makes its routing table.

Clients of one node, will automatically have their traffic routed thought the network (hop, hop, hop) much like packet radio networks.

Brett Neilson
brett@...
http://www.brettneilson.com

GPG Public Key ID: 0x69759F44

-----Original Message-----
From: Douglas Kilgore <douglas.kilgore@...>
To: n5jep@..., HSMM Group <ntms-hsmm@yahoogroups.com>
Date: Mon, 26 Jul 2004 09:41:49 -0500
Subject: [ntms-hsmm] Mesh Network - Paris, TX

Welcome aboard.

I received the following URL from K5PSK regarding Mesh Networks:

http://www.locustworld.net/modules.php?op=modload&name=Downloads&file=index&req=viewdownload&cid=6

Keep us informed about your progress.

Doug Kilgore KD5OUG

"Yahoo! Groups Notification" wrote:
>
> Hello,
>
> The following person would like to join the ntms-hsmm group:
> Email address: n5jep <n5jep@...>
>
> Comment from user:
> I am setting up a mesh network here in Paris for our skywarn group and am
> looking for more information and support in hsmm networking.
>

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[Non-text portions of this message have been removed]

186. GARC July Club Presentation

Yahoo group: DAWG-HSMM
Date: 2004-07-28 23:13:21 UTC
From: J. Beadles
Topic: 186 Message: 186

This last Monday, Joe Jurecka N5PYK and I gave an HSMM presentation to the Garland ARC. Darn thing lasted an hour and a half. Randy Dunning KC5QHH, Joe and I brought demo materials, and Joe updated a brand new WRT54G to the SVEASOFT (right?) firmware on the spot. Randy and Joe were able to get Netmeeting to work with Joe connected to his laptop connected to the WRT54G, which was bridged to Randys AP through his Senao upgraded WET11.

I like this upgraded WRT54G. I think we need to experiment with this for balloon festival. In advance, of course. Well in advance. Right, Tony?

187. RE: [ntms-hsmm] GARC July Club Presentation

Yahoo group: DAWG-HSMM
Date: 2004-07-29 01:49:26 UTC
From: Anthony 'Tony' Campbell
Topic: 186 Message: 187

It does sound interesting. I do absolutely agree that this should be done well in advance of the event.

Tony
-----Original Message-----
From: J. Beadles [mailto:jbeadles@...]
Sent: Wednesday, July 28, 2004 6:13 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] GARC July Club Presentation

This last Monday, Joe Jurecka N5PYK and I gave an HSMM presentation to the Garland ARC. Darn thing lasted an hour and a half. Randy Dunning KC5QHH, Joe and I brought demo materials, and Joe updated a brand new WRT54G to the SVEASOFT (right?) firmware on the spot. Randy and Joe were able to get Netmeeting to work with Joe connected to his laptop connected to the WRT54G, which was bridged to Randys AP through his Senao upgraded WET11.

I like this upgraded WRT54G. I think we need to experiment with this for balloon festival. In advance, of course. Well in advance. Right, Tony?

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[Non-text portions of this message have been removed]

188. Re: GARC July Club Presentation

Yahoo group: DAWG-HSMM
Date: 2004-07-29 18:37:21 UTC
From: Joe - N5PYK
Topic: 186 Message: 188

Yep it was the SVEASOFT firmware....you can even read client RSSI with it!
Really slick.
I have a local copy of the firmware just in case ;)
Performance wise, it blows my Netgear AP A/B away on range.

Fry's had a few boxes marked down to $56 plus a $10 rebate. So, not a bad
price for a very full featured router/ap
Joe

189. Re: [ntms-hsmm] Re: GARC July Club Presentation

Yahoo group: DAWG-HSMM
Date: 2004-07-30 17:46:51 UTC
From: Rusty Haddock
Topic: 186 Message: 189

Joe - N5PYK wrote:
>Yep it was the SVEASOFT firmware....you can even read client RSSI with it!
>Really slick.

I need to try that out now that I've got an extra AP or two now.

>Fry's had a few boxes marked down to $56 plus a $10 rebate. So,
>not a bad price for a very full featured router/ap

At 11:30am today, I must have picked up the last one at Fry's in Plano
and I did a little bit of digging around on that top shelf. Indeed, these
were "returns". Mine was labeled "S/N Mismatch".

On the other hand... there's a Back-To-School special Fry's is running:

An AirLink+ 802.11g/b Wireless Router with 4-port switch
Regular prices is $79.99 -- On sale for $29.99
NO REBATE-NO COUPONS! (i.e. this is the price you pay at the pump :)

Dunno how good it is but for US$30, I added to my toy chest this morning.
Oh, and they have PLENTY of them. Probably a closeout but... if it works,
it works. Hmmmm... maybe I should have waited for the No-Tax weekend? :)

-Rusty-
--
_____ Rusty Haddock = KD4WLZ = rusty@...
|\/ o \ o **Out yonder in the Van Alstyne (TX) Metropolitan Area**
| (-< O o Microsoft is to software what
|/__V__/ McDonalds is to gourmet cooking

190. Re: [ntms-hsmm] Re: GARC July Club Presentation

Yahoo group: DAWG-HSMM
Date: 2004-07-31 04:35:32 UTC
From: jbeadles@pobox.com
Topic: 186 Message: 190

On 30 Jul 2004 at 12:46, Rusty Haddock wrote:

> Joe - N5PYK wrote:
> >Yep it was the SVEASOFT firmware....you can even read client RSSI with it!
> >Really slick.
>
> I need to try that out now that I've got an extra AP or two now.
>
> >Fry's had a few boxes marked down to $56 plus a $10 rebate. So,
> >not a bad price for a very full featured router/ap
>
> At 11:30am today, I must have picked up the last one at Fry's in Plano
> and I did a little bit of digging around on that top shelf. Indeed, these
> were "returns". Mine was labeled "S/N Mismatch".

Just went over there - they are marked $79, but on the center island
there's a tag that says that they are $59 until 8/3. Sure enough,
mine came up that way at the cash register.

191. Plano Balloon Fest

Yahoo group: DAWG-HSMM
Date: 2004-07-31 11:56:24 UTC
From: radiorandr
Topic: 179 Message: 191

I will be out at the Plano Balloon Fest site on Sunday evening at 7:00 pm (weather permitting) doing a site survey and investigating ways we might provide coverage for the even. If anyone would like to join me feel free to drop by. The gathering will be very informal.

Thanks,

Tony
W5ADC

192. Link: WDS bridging and repeating

Yahoo group: DAWG-HSMM
Date: 2004-08-02 19:16:34 UTC
From: J. Beadles
Topic: 192 Message: 192

An article on WDS bridging and repeating
http://www.smallnetbuilder.com/Sections-article78-page1.php

And Proxim's technical paper on the subject

http://www.proxim.com/support/techbulletins/TB-046.pdf

Tony, you'll be particularly interested in this stuff

193. Sveasoft firmware upgrade for WRT-54G

Yahoo group: DAWG-HSMM
Date: 2004-08-02 19:23:09 UTC
From: J. Beadles
Topic: 193 Message: 193

I picked up a WRT-54G and put the sveasoft firmware on it. Seems to work, and we used it out at the Balloon Festival park last night. It's interesting in that it doesn't replace the Linksys web pages but augments them instead. This confused me at first, but when I looked, the admin page had a LOT more options.

One thing I didn't see was the signal strength indicator. Joe, what version did you load?

194. Re: [ntms-hsmm] Sveasoft firmware upgrade for WRT-54G

Yahoo group: DAWG-HSMM
Date: 2004-08-03 11:34:32 UTC
From: Bob and Debbie Kmak
Topic: 193 Message: 194

John,

I don't know if there is a way to see the received signal strength from the web interface (would be nice), but you can get that information from the command line after telneting into the box. This procedure is somewhat documented at: http://docs.sveasoft.com/SV-Wireless-AP.html

Use 'root' as a user ID and whatever password you have configured for the telnet login. Notice the screen dump for the wl assoc command, which includes RSSI and noise level. I can verify that this procedure works for Sveasoft Sartori-4.0 release, which is what I installed on the WRT54G that you lent me. I think there is also a command specifically to get the signal strength, but haven't tried it. See the Sveasoft doc at: http://docs.sveasoft.com/SV-RouterShellDocs.html

73,

Bob K5WO

----- Original Message -----
From: "J. Beadles" <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Monday, August 02, 2004 2:23 PM
Subject: [ntms-hsmm] Sveasoft firmware upgrade for WRT-54G

> I picked up a WRT-54G and put the sveasoft firmware on it. Seems to
> work, and we used it out at the Balloon Festival park last night.
> It's interesting in that it doesn't replace the Linksys web pages but
> augments them instead. This confused me at first, but when I looked,
> the admin page had a LOT more options.
>
> One thing I didn't see was the signal strength indicator. Joe, what
> version did you load?
>
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>

195. Re: Sveasoft firmware upgrade for WRT-54G

Yahoo group: DAWG-HSMM
Date: 2004-08-03 14:28:48 UTC
From: J. Beadles
Topic: 193 Message: 195

--- In ntms-hsmm@yahoogroups.com, "Bob and Debbie Kmak" <bdkmak@c...>
wrote:
> John,
>
> I don't know if there is a way to see the received signal strength
from the
> web interface (would be nice), but you can get that information
from the
> command line after telneting into the box. This procedure is
somewhat
> documented at: http://docs.sveasoft.com/SV-Wireless-AP.html
>
> Use 'root' as a user ID and whatever password you have configured
for the
> telnet login. Notice the screen dump for the wl assoc command, which
> includes RSSI and noise level. I can verify that this procedure
works for
> Sveasoft Sartori-4.0 release, which is what I installed on the
WRT54G that
> you lent me. I think there is also a command specifically to get
the signal
> strength, but haven't tried it. See the Sveasoft doc at:
> http://docs.sveasoft.com/SV-RouterShellDocs.html

I'll look for that. I think I used the other release (whatever that
was), but somewhere I saw info that said the RSSI was now available
under the "admin", "wireless" web page. I sure didn't see it.
However, a command line reading will be more than sufficient.

196. Link: Review of the Dlink DWL-2100AP

Yahoo group: DAWG-HSMM
Date: 2004-08-03 14:35:38 UTC
From: J. Beadles
Topic: 196 Message: 196

http://reviews-zdnet.com.com/D-Link_DWL-2100AP/4505-3265_16-30719278.html

Has WDS bridging and repeating, but don't know if the implementation is compatible across brands. Also seems to get good throughput. Runs about 85$ at Frys.

197. Sveasoft firmware upgrade for WRT-54G

Yahoo group: DAWG-HSMM
Date: 2004-08-03 15:16:00 UTC
From: Joe - N5PYK
Topic: 193 Message: 197

John,
I think it is on the status page (far right) under wireless. Haven't used it enough to remember all the locations.

Its near the bottom of the page. It will report RSSI for each connected MAC
Joe

198. RE: [ntms-hsmm] Digest Number 70

Yahoo group: DAWG-HSMM
Date: 2004-08-03 16:41:42 UTC
From: Randall Dunning
Topic: 198 Message: 198

I loaded the Sveasoft Sokris 4.0G load on my WRT-54G and it worked like a champ. I too am wondering how to get at the signal strength indicator. I burned a CD with the 4.0G (WRT-54G), 4.0GS (WRT-54GS - "Speed Booster") loads, and the source. We need to have a "Fifty-Four-Mesh" party some time soon to learn how to set up and deploy mesh nodes quickly and efficiently.

In other news, I took my Senao equipped WET-11 and successfully bridged my BEF11S4 to the NT5NT WAP-11 on top of the Nortel Tower and was heartened to see the WET-11 signal strength page give me a signal strength number (68% in this case).

73,

RD

[Non-text portions of this message have been removed]

199. ID on HSMM

Yahoo group: DAWG-HSMM
Date: 2004-08-03 23:27:29 UTC
From: kd5inm
Topic: 199 Message: 199

Hi all,

This may have been asked before, but is everyone running this equipment, running it as Hams?, or are they running it under a Part 15? If running as a Ham, what is the proper way to ID, is there an expected mode to ID, such as CW or do you just type (callsign) in every 5 min. If FCC is monitoring your signal, how would they go about finding your ID in all the ones and zeros?

John kd5inm
----- Original Message -----
From: Randall Dunning
To: ntms-hsmm@yahoogroups.com
Sent: Tuesday, August 03, 2004 11:41 AM
Subject: RE: [ntms-hsmm] Digest Number 70

I loaded the Sveasoft Sokris 4.0G load on my WRT-54G and
it worked like a champ. I too am wondering how to get at
the signal strength indicator. I burned a CD with the 4.0G
(WRT-54G), 4.0GS (WRT-54GS - "Speed Booster") loads, and the
source. We need to have a "Fifty-Four-Mesh" party some time
soon to learn how to set up and deploy mesh nodes quickly
and efficiently.

In other news, I took my Senao equipped WET-11 and successfully
bridged my BEF11S4 to the NT5NT WAP-11 on top of the Nortel
Tower and was heartened to see the WET-11 signal strength page
give me a signal strength number (68% in this case).

73,

RD

[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

200. RE: [ntms-hsmm] Re: GARC July Club Presentation

Yahoo group: DAWG-HSMM
Date: 2004-08-04 03:11:36 UTC
From: Chris Ward
Topic: 186 Message: 200

Is there a way that I can someone to do a presentation for the Irving Club?

CW

WD5CW

-----Original Message-----
From: jbeadles@... [mailto:jbeadles@...]
Sent: Friday, July 30, 2004 11:36 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Re: GARC July Club Presentation

On 30 Jul 2004 at 12:46, Rusty Haddock wrote:

> Joe - N5PYK wrote:
> >Yep it was the SVEASOFT firmware....you can even read client RSSI with it!
> >Really slick.
>
> I need to try that out now that I've got an extra AP or two now.
>
> >Fry's had a few boxes marked down to $56 plus a $10 rebate. So,
> >not a bad price for a very full featured router/ap
>
> At 11:30am today, I must have picked up the last one at Fry's in Plano
> and I did a little bit of digging around on that top shelf. Indeed, these
> were "returns". Mine was labeled "S/N Mismatch".

Just went over there - they are marked $79, but on the center island there's a tag that says that they are $59 until 8/3. Sure enough, mine came up that way at the cash register.

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<http://us.ard.yahoo.com/SIG=129psu964/M=295196.4901138.6071305.3001176/D=groups/S=1705644089:HM/EXP=1091334753/A=2128215/R=0/SIG=10se96mf6/*http:/companion.yahoo.com> click here

<http://us.adserver.yahoo.com/l?M=295196.4901138.6071305.3001176/D=groups/S=:HM/A=2128215/rand=747144713>

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[Non-text portions of this message have been removed]

201. Re: [ntms-hsmm] ID on HSMM

Yahoo group: DAWG-HSMM
Date: 2004-08-04 03:24:21 UTC
From: Rusty Haddock
Topic: 199 Message: 201

kd5inm wrote:
>Hi all,
>
> This may have been asked before, but is everyone running this
>equipment, running it as Hams?, or are they running it under a
>Part 15? If running as a Ham, what is the proper way to ID, is
>there an expected mode to ID, such as CW or do you just type
>(callsign) in every 5 min. If FCC is monitoring your signal, how
>would they go about finding your ID in all the ones and zeros?

Quick answers:

Remember slow, 1200-bps packet? How did you ID there? Hmmm... it was done by the TNC (hardware or software) putting your callsign into each and every packet it sent out. That was part of the AX-25 protocol. Keep in mind that in Amateur Radio you ID in the mode that you're transmitting although CW is the lowest common mode.

As for 802.11, think SSID. Put your callsign in the SSID and it gets broadcast about 10 times a second unless you turn it off. The Friendly Cookie Company can simply watch the airwaves with the monitoring software that usually comes with most WLAN cards to see what SSIDs are being received. Worst case, there's always NetStumbler.

As for running Part 15 vs Part 97: this will depend on whether you're running an A/P or your WLAN card on your PC/Laptop with a different antenna than designed by the manufacture (and approved by the FCC for use with said equipment) or possible running more power via amplifier. Both of these will pretty much cause you to be under Part 97. A recent ruling by the FCC has somewhat, but not completely, changed this with regards to antennas.

-Rusty-
--
_____ Rusty Haddock = KD4WLZ = rusty@...
|\/ o \ o **Out yonder in the Van Alstyne (TX) Metropolitan Area**
| (-< O o Microsoft is to software what
|/__V__/ McDonalds is to gourmet cooking

202. DMN: Wireless technology brings swift aid to Lancaster flood victims

Yahoo group: DAWG-HSMM
Date: 2004-08-04 07:54:48 UTC
From: Ken Patterson
Topic: 202 Message: 202

I normally don't post articles found elsewhere on the internet. However, since this article seems relevant to the subject matter here & the Dallas Morning News (DMN) site requires a free registration for browsing access, I thought I would do the list a favor & post it. I hope the photo of the cool-looking Ford Excursion makes it through Yahoo.

de Ken,

N5EQT

EM22

Source:
http://www.dallasnews.com/sharedcontent/dws/dn/latestnews/stories/080304dnmetwireless.24504.html

Requires free site registration

Wireless technology brings swift aid to Lancaster flood victims

10:16 PM CDT on Monday, August 2, 2004

By HERB BOOTH / The Dallas Morning News

LANCASTER -- Volunteers from various agencies descended on Lancaster almost immediately after last week's flooding. And one brought machines that carry data and speed emergency funds to flood victims.

Equipment worth more than $150,000 fills a souped-up Ford Excursion called the American Red Cross Emergency Communications Response Vehicle.

From the back of the Excursion, information is encrypted and bounced off a satellite dish at Lancaster First United Methodist Church and then to a Virginia credit card company. The volunteer then swipes a credit card, which places emergency aid money on the card, and that card is handed to the flooding victim.

truck

Edmund Fountain / DMN

The techno-truck that carried data-transmission equipment to Lancaster flooding victims is one of nine used by the Red Cross in the United States.

The credit card can be used to purchase food, clothing or shelter.

More than a foot of rain fell in eight hours late Wednesday and early Thursday. The deluge damaged or destroyed 115 homes, totaled 107 vehicles and caused about $6 million in damage. State and federal officials will know

late this week whether the area qualifies for national assistance.

Volunteers now take a laptop and a cellphone to a disaster site instead of reams and reams of forms. The volunteers download information via Wi-Fi technology, or wireless fidelity, a high-speed data-transmission system that allows users to access the Internet without data lines.

It's only the second time the Red Cross has used Wi-Fi. The first time was after June flooding in New Jersey.

Anita Foster, a Red Cross spokeswoman, said the techno-truck was nearly completely paid for with donations. It is one of nine across the country.

Five Red Cross teams were feeding into the truck's data banks Monday. Ms. Foster didn't have the exact number of credit cards issued, but she said whatever the number, it was infinitely quicker than the manual system that preceded the Wi-Fi technology.

Georgia Lohner, the Dallas Action Team coordinator for the American Red Cross' Dallas Chapter, said the system is incredibly agile.

"There's no duplication of effort," she said. "It also lets us know where the people are who haven't been seen yet."

Ms. Foster said the system also allows the Red Cross to update the card if more emergency funds are warranted.

"It also takes some of the stigma out of having to tell anyone that you're a victim," Ms. Foster said. "With the credit card, you hand it to them, and they just scan it, instead of carrying the papers with you."

Also Online

Video:
<http://65.54.246.250/cgi-bin/linkrd?_lang=EN&lah=a19f10636079cc905b99dd67b6e55d7f&lat=1091521201&hm___action=http%3a%2f%2fwww%2ewfaa%2ecom%2fcgi%2dbin%2fbi%2fvideo%2fwmPlayer%2epl%3ftitle%3dwww%2ewfaa%2ecom%2f040802_1800redcross_am%2ewmv>
<http://65.54.246.250/cgi-bin/linkrd?_lang=EN&lah=a19f10636079cc905b99dd67b6e55d7f&lat=1091521201&hm___action=http%3a%2f%2fwww%2ewfaa%2ecom%2fcgi%2dbin%2fbi%2fvideo%2fwmPlayer%2epl%3ftitle%3dwww%2ewfaa%2ecom%2f040802_1800redcross_am%2ewmv> Don Wall reports

Monica Manning received a credit card on the spot.

"I'm glad the volunteers are out here," said Ms. Manning, who said her recently remodeled home on Enchanted Lane was totaled.

"But we're all safe. That's what counts."

E-mail hbooth@...
<http://by2fd.bay2.hotmail.msn.com/cgi-bin/compose?mailto=1&msg=MSG1091521197.16&start=648854&len=8733&src=&type=x&to=hbooth%40dallasnews%2ecom&cc=&bcc=&subject=&body=&curmbox=F000000001&a=9294f49db660ce8367008e854187e3ec>

[Non-text portions of this message have been removed]

203. RE: DMN: Wireless technology brings swift aid to Lancaster flood victims

Yahoo group: DAWG-HSMM
Date: 2004-08-04 08:08:01 UTC
From: Ken Patterson
Topic: 202 Message: 203

Here's a link to the Ford Excursion that was referenced in my previous post.
It seems to not require a site registration to view it here. YMMV.

<http://www.dallasnews.com/sharedcontent/dws/img/08-04/0803truck.jpg>
http://www.dallasnews.com/sharedcontent/dws/img/08-04/0803truck.jpg

de Ken,

N5EQT

[Non-text portions of this message have been removed]

204. Re: [ntms-hsmm] ID on HSMM

Yahoo group: DAWG-HSMM
Date: 2004-08-04 15:42:42 UTC
From: dubose@texas.net
Topic: 199 Message: 204

Setting the SSID with you call is super if its an AP, but a client or bridge doesn't have an SSID for you to set. Some hardware allows you to set a device name, and that could be used. But to keep down the bandwidth, I tunr off broadcasting and only use an ICMP ID.
Walt/K5YFW > > > > > kd5inm wrote:
> ??? >Hi all,
> ??? >
> ??? >? This may have been asked before, but is everyone running this
> ??? >equipment, running it as Hams?, or are they running it under a
> ??? >Part 15? If running as a Ham, what is the proper way to ID, is
> ??? >there an expected mode to ID, such as CW or do you just type
> ??? >(callsign) in every 5 min. If FCC is monitoring your signal, how
> ??? >would they go about finding your ID in all the ones and zeros?
>
> Quick answers:
>
> Remember slow, 1200-bps packet?? How did you ID there?? Hmmm... it was
> done by the TNC (hardware or software) putting your callsign into each and
> every packet it sent out. That was part of the AX-25 protocol.? Keep in
> mind that in Amateur Radio you ID in the mode that you're transmitting
> although CW is the lowest common mode.
>
> As for 802.11, think SSID.? Put your callsign in the SSID and it gets
> broadcast about 10 times a second unless you turn it off.? The Friendly
> Cookie Company can simply watch the airwaves with the monitoring software
> that usually comes with most WLAN cards to see what SSIDs are being
> received. Worst case, there's always NetStumbler.
>
> As for running Part 15 vs Part 97: this will depend on whether you're
> running an A/P or your WLAN card on your PC/Laptop with a different
> antenna than designed by the manufacture (and approved by the FCC for
> use with said equipment) or possible running more power via amplifier.
> Both of these will pretty much cause you to be under Part 97.? A recent
> ruling by the FCC has somewhat, but not completely, changed this with
> regards to antennas.
>
> ????? -Rusty-
> --
> ?? _____??????? Rusty Haddock? =? KD4WLZ? =? rusty@...
> |\/?? o \?? o? **Out yonder in the Van Alstyne (TX) Metropolitan Area**
> |?? (? -<? O o???????????? Microsoft is to software what
> |/__V__/???????????????? McDonalds is to gourmet cooking
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- To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/
? >
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ntms- hsmm-unsubscribe@yahoogroups.com
? >
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(http://docs.yahoo.com/info/terms/). > > > > > > > > >

205. Re: GARC July Club Presentation

Yahoo group: DAWG-HSMM
Date: 2004-08-04 19:16:27 UTC
From: J. Beadles
Topic: 186 Message: 205

--- In ntms-hsmm@yahoogroups.com, "Chris Ward" <WD5CW@c...> wrote:
> Is there a way that I can someone to do a presentation for the
Irving
> Club?

Chris,

Surely, I'd be willing to do it if nobody else steps up. Warning, the one we did at the Garland club goes long, abt 1 hr 45 min. And unfortunately, it just takes that long.

206. Bridging experiment

Yahoo group: DAWG-HSMM
Date: 2004-08-04 19:21:05 UTC
From: J. Beadles
Topic: 206 Message: 206

Whilst finally sorting out the eqpt we used at the Wild Ride and Hamcom, Doug Kilgore, Bob Kmak and I did some bridging experiementation using 2 WRT54Gs and one D-link DWL900AP+.

We were able to get one WRT54G and the DWL900 to bridge to the other WRT54G, and with one minor hiccup, everything worked pretty well. The hickup was that Doug's laptop was connected to the WRT54G running in AP mode, and that acted as the DHCP server with an IP of 192.168.1.2. When doug got an address from it, it set his default gateway to 1.2 also. My other WRT54G was set up as 192.168.1.1, and he couldn't ping it. I suspect it thought that the 1.1 address was outside the subnet and had no way to route to it. Other than that, everything went fine.

More complicated setups to come.

207. RE: [ntms-hsmm] Sveasoft firmware upgrade for WRT-54G

Yahoo group: DAWG-HSMM
Date: 2004-08-08 00:32:55 UTC
From: Rosalio Salas
Topic: 193 Message: 207

Hello everyone,

Has anyone noticed or tried to use Echolink on two different computers on their LAN using a Linksys Wireless-G router and have to manually adjust the port forwarding between the different ip addresses?

My router only allows 1 ip address for Application port forwarding, per port series.

So for example, my home computer may be 192.168.1.100 and my laptop 192.168.1.101 (using DHCP for addressing).

How can i solve this? Will the firmware upgrade solve this?

Leo

[Non-text portions of this message have been removed]

208. RE: [ntms-hsmm] Sveasoft firmware upgrade for WRT-54G

Yahoo group: DAWG-HSMM
Date: 2004-08-08 02:32:30 UTC
From: Bruce Dingman
Topic: 193 Message: 208

Leo, I am using a wireless setup and just have to go into the router config setup menu and select "advanced" then go to "forwarding" and set one ext.port to 5198 to 5199, UDP, enter the address of your pc, say 192.168.1.100, and click enable....
Go to the next line down and enter 0 to 5200, TCP, enter the address of the same PC, 192.168.1.100, and click the enable....
May not be the cleanest way to do it but it works.
If you want to add your laptop just fill in two more lines using the laptop address.
You might want to enter a discription of the control in the left hand block so you remember what it is for.
I have both my laptop and PC enabled at the router but you should only use one at a time.
I'm no expert but I got it working this way.
Good luck..
Bruce
n5byl
----- Original Message -----
From: "Rosalio Salas" <n5jep@...>
Date: Sat, 7 Aug 2004 19:32:55 -0500
To: <ntms-hsmm@yahoogroups.com>
Subject: RE: [ntms-hsmm] Sveasoft firmware upgrade for WRT-54G

> Hello everyone,
>
> Has anyone noticed or tried to use Echolink on two different computers
> on their LAN using a Linksys Wireless-G router and have to manually
> adjust the port forwarding between the different ip addresses?
>
> My router only allows 1 ip address for Application port forwarding, per
> port series.
>
> So for example, my home computer may be 192.168.1.100 and my laptop
> 192.168.1.101 (using DHCP for addressing).
>
> How can i solve this? Will the firmware upgrade solve this?
>
> Leo
>
>
> [Non-text portions of this message have been removed]
>

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_____
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209. RE: [ntms-hsmm] Sveasoft firmware upgrade for WRT-54G

Yahoo group: DAWG-HSMM
Date: 2004-08-08 17:47:17 UTC
From: Rosalio Salas
Topic: 193 Message: 209

Thanks Bruce. The problem I am having is the DHCP issues different ip's everytime. I suppose that setting a static would do the trick but the laptop also goes between office and home. the Dlink router we used was great. it let us use * for the ip address so it didn't matter what DHCP address was given. The Linksys doesn't have that * feature to my knowledge.
Leo

-----Original Message-----
From: Bruce Dingman [mailto:n5byl@...]
Sent: Saturday, August 07, 2004 9:33 PM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Sveasoft firmware upgrade for WRT-54G

Leo, I am using a wireless setup and just have to go into the router config setup menu and select "advanced" then go to "forwarding" and set one ext.port to 5198 to 5199, UDP, enter the address of your pc, say 192.168.1.100, and click enable....
Go to the next line down and enter 0 to 5200, TCP, enter the address of the same PC, 192.168.1.100, and click the enable....
May not be the cleanest way to do it but it works.
If you want to add your laptop just fill in two more lines using the laptop address.
You might want to enter a discription of the control in the left hand block so you remember what it is for.
I have both my laptop and PC enabled at the router but you should only use one at a time.
I'm no expert but I got it working this way.
Good luck..
Bruce
n5byl
----- Original Message -----
From: "Rosalio Salas" <n5jep@...>
Date: Sat, 7 Aug 2004 19:32:55 -0500
To: <ntms-hsmm@yahoogroups.com>
Subject: RE: [ntms-hsmm] Sveasoft firmware upgrade for WRT-54G

> Hello everyone,
>
> Has anyone noticed or tried to use Echolink on two different computers
> on their LAN using a Linksys Wireless-G router and have to manually
> adjust the port forwarding between the different ip addresses?
>
> My router only allows 1 ip address for Application port forwarding,
per
> port series.

>
> So for example, my home computer may be 192.168.1.100 and my laptop
> 192.168.1.101 (using DHCP for addressing).
>
> How can i solve this? Will the firmware upgrade solve this?
>
> Leo
>
>
> [Non-text portions of this message have been removed]
>

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D=groups/S=1705644089:HM/EXP=1092018754/A=2164330/R=0/SIG=11eamf8g4/*htt
p://www.netflix.com/Default?mqso=60183350> click here

<http://us.adserver.yahoo.com/l?M=298184.5285298.6392945.3001176/D=group
s/S=:HM/A=2164330/rand=601292824>

Yahoo! Groups Links

* To visit your group on the web, go to:
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[Non-text portions of this message have been removed]

210. RE: [ntms-hsmm] Sveasoft firmware upgrade for WRT-54G

Yahoo group: DAWG-HSMM
Date: 2004-08-08 18:23:15 UTC
From: Bruce Dingman
Topic: 193 Message: 210

I see, well sorry it didn't help.
Bruce
----- Original Message -----
From: "Rosalio Salas" <n5jep@...>
Date: Sun, 8 Aug 2004 12:47:17 -0500
To: <ntms-hsmm@yahoogroups.com>
Subject: RE: [ntms-hsmm] Sveasoft firmware upgrade for WRT-54G

> Thanks Bruce. The problem I am having is the DHCP issues different ip's
> everytime. I suppose that setting a static would do the trick but the
> laptop also goes between office and home. the Dlink router we used was
> great. it let us use * for the ip address so it didn't matter what DHCP
> address was given. The Linksys doesn't have that * feature to my
> knowledge.
> Leo
>
> -----Original Message-----
> From: Bruce Dingman [mailto:n5byl@...]
> Sent: Saturday, August 07, 2004 9:33 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: RE: [ntms-hsmm] Sveasoft firmware upgrade for WRT-54G
>
>
> Leo, I am using a wireless setup and just have to go into the router
> config setup menu and select "advanced" then go to "forwarding" and set
> one ext.port to 5198 to 5199, UDP, enter the address of your pc, say
> 192.168.1.100, and click enable....
> Go to the next line down and enter 0 to 5200, TCP, enter the address of
> the same PC, 192.168.1.100, and click the enable....
> May not be the cleanest way to do it but it works.
> If you want to add your laptop just fill in two more lines using the
> laptop address.
> You might want to enter a discription of the control in the left hand
> block so you remember what it is for.
> I have both my laptop and PC enabled at the router but you should only
> use one at a time.
> I'm no expert but I got it working this way.
> Good luck..
> Bruce
> n5byl
> ----- Original Message -----
> From: "Rosalio Salas" <n5jep@...>
> Date: Sat, 7 Aug 2004 19:32:55 -0500
> To: <ntms-hsmm@yahoogroups.com>
> Subject: RE: [ntms-hsmm] Sveasoft firmware upgrade for WRT-54G

>
> > Hello everyone,
> >
> > Has anyone noticed or tried to use Echolink on two different computers
> > on their LAN using a Linksys Wireless-G router and have to manually
> > adjust the port forwarding between the different ip addresses?
> >
> > My router only allows 1 ip address for Application port forwarding,
> per
> > port series.
> >
> > So for example, my home computer may be 192.168.1.100 and my laptop
> > 192.168.1.101 (using DHCP for addressing).
> >
> > How can i solve this? Will the firmware upgrade solve this?
> >
> > Leo
> >
> >
> > [Non-text portions of this message have been removed]
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> D=groups/S=1705644089:HM/EXP=1092018754/A=2164330/R=0/SIG=11eamf8g4/*htt
> p://www.netflix.com/Default?mqso=60183350> click here
>
> <http://us.adserver.yahoo.com/l?M=298184.5285298.6392945.3001176/D=group
> s/S=:HM/A=2164330/rand=601292824>
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211. Wild Ride & 802.11b Presentation

Yahoo group: DAWG-HSMM
Date: 2004-08-08 19:15:18 UTC
From: Douglas Kilgore
Topic: 211 Message: 211

Doug Kilgore KD5OUG will give a PowerPoint presentation to the Richardson Wireless Klub about "WildRide and 802.11b".

RWK will meet Monday, Aug. 9, 2004 7:00pm at the St Barnabas Presbyterian Church, 1222 West Beltline, Richardson TX. Visitors are welcome.

If you participated in Wild Ride operations and will be attending the meeting, please wear your Wild Ride T-shirt.

212. Re: [ntms-hsmm] Wild Ride & 802.11b Presentation

Yahoo group: DAWG-HSMM
Date: 2004-08-09 16:03:56 UTC
From: Bill K2CHP
Topic: 211 Message: 212

Count me in there Doug,I'll bring along the equipment
I used for the Wildride event.

=====
W Miller K2CHP
Richardson TX

213. Re: [ntms-hsmm] Wild Ride & 802.11b Presentation

Yahoo group: DAWG-HSMM
Date: 2004-08-09 16:06:54 UTC
From: Douglas Kilgore
Topic: 211 Message: 213

Great!! See you tonight.

Doug

Bill K2CHP wrote:
>
> Count me in there Doug,I'll bring along the equipment
> I used for the Wildride event.
>
> =====
> W Miller K2CHP
> Richardson TX
>
>
>
> Yahoo! Groups Links
>
>
>
>

214. RE: [ntms-hsmm] Wild Ride & 802.11b Presentation

Yahoo group: DAWG-HSMM
Date: 2004-08-09 22:12:05 UTC
From: Rosalio Salas
Topic: 211 Message: 214

I may be a little late but I'm on my way from Paris, TX

-----Original Message-----
From: Douglas Kilgore [mailto:douglas.kilgore@...]
Sent: Monday, August 09, 2004 11:07 AM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Wild Ride & 802.11b Presentation

Great!! See you tonight.

Doug

Bill K2CHP wrote:
>
> Count me in there Doug,I'll bring along the equipment
> I used for the Wildride event.
>
> =====
> W Miller K2CHP
> Richardson TX
>
>
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<http://us.adserver.yahoo.com/l?M=298184.5285298.6392945.3001176/D=groups/S=:HM/A=2164331/rand=653593831>

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[Non-text portions of this message have been removed]

215. Sources for IP67 "Harsh Environment" Ethernet Connectors.

Yahoo group: DAWG-HSMM
Date: 2004-08-13 23:18:52 UTC
From: Randall Dunning
Topic: 215 Message: 215

Here is some information on IP67 rated Ethernet cables and connectors.
For those of us doing E-Comm applications with 802.11 gear in less than
ideal WX such connectors might just be what the doctor ordered.

IP Rating Table
http://www.rlws.com/lit/load-cells/IP_ratings.html

The following carry the RJ Lnxx line of connectors (threaded):

AWC in Austin Texas (Cheapest I have found)
http://www.awc-direct.com/index.html

BB Electronics in Chicago, Illinois (best selection)
http://www.bb-elec.com/productlist.asp?dept_id=99

Spec Sheet:
http://www.bb-elec.com/bb-elec/literature/ENxxHarshDutyCables-0903.pdf

Catalog:

http://www.selectronix.co.uk/products/cac%5Ctechdocs%5CRJLnxxCat%20Aug01.pdf

The following carry the Amphanol (mid price) line of connectors (bayonet)

Metrix
http://metrix.net/metrix/products/parts

73,

RD

"Nearly all men can stand adversity, but if you want to test a man's
character, give him power."
--Abraham Lincoln

[Non-text portions of this message have been removed]

216. Cheap network equipment

Yahoo group: DAWG-HSMM
Date: 2004-08-14 06:07:53 UTC
From: J. Beadles
Topic: 216 Message: 216

Frys' has some really cheap Dlink eqpt this weekend...

An 802.11b router for $4.99 after rebate...
A DSL router with 4 port switch and USB print server for $29
An 802.11g router for $39 after rebate

BTW, I saw an interesting Linksys box at Best Buy - it's a networked storage device. You plug a USB hard drive and an ethernet cable into it. The box was somewhere between $79 - $99. A little pricier than I'd like, but about time somebody did it.

217. (Fwd) [Ham-80211] D-Star

Yahoo group: DAWG-HSMM
Date: 2004-08-16 04:17:15 UTC
From: jbeadles@pobox.com
Topic: 217 Message: 217

```
------- Forwarded message follows -------
From: "Steve Lampereur" <kb9mwr@...>

[ Double-click this line for list subscription options ]

A few months back I think I made mention here that I had a first had chance
to evaluate and play with Icom's D-Star 1.2 GHz radio. Unfortunatly the
radio's had to go back already. I was really hoping to have more time to
put the units to many different tests. But for anyone interested what did
manage to get documeted is at:

http://astro.gmtc.net/dstar/

73
Steve

_____________________________________________
ham-80211 mailing list
ham-80211@...
https://lists.tapr.org/cgi-bin/mailman/listinfo/ham-80211

------- End of forwarded message -------
```

218. Plano Balloon Fest Planning Meeting

Yahoo group: DAWG-HSMM
Date: 2004-08-17 23:53:07 UTC
From: Anthony 'Tony' Campbell
Topic: 218 Message: 218

Our next HSMM Plano Balloon Fest Planning meeting will be this coming Sunday at 7:00 pm. The meeting will be at the launch site parking lot. The goals for the meeting will be continue to test WiFi coverage of the field and discuss the implementation of webcams. The meeting will be over when it gets dark.

Tony
W5ADC
972-342-1729

219. Re: [ntms-hsmm] Plano Balloon Fest Planning Meeting

Yahoo group: DAWG-HSMM
Date: 2004-08-18 00:35:27 UTC
From: Douglas Kilgore
Topic: 218 Message: 219

I'll be there.

Doug

Anthony 'Tony' Campbell wrote:
>
> Our next HSMM Plano Balloon Fest Planning meeting will be this coming Sunday
> at 7:00 pm. The meeting will be at the launch site parking lot. The goals
> for the meeting will be continue to test WiFi coverage of the field and
> discuss the implementation of webcams. The meeting will be over when it
> gets dark.
>
> Tony
> W5ADC
> 972-342-1729
>

220. Securing the AP while providing a service

Yahoo group: DAWG-HSMM
Date: 2004-08-19 00:09:08 UTC
From: ulterior713
Topic: 220 Message: 220

Hello all,

I have some information that may be of some help for the upcoming Plano balloon fest. I have been running a 802.11b AP in my neighborhood for the last year or so. My ISP is Speakeasy and they actually support community wireless. I provide Web access at no charge to the users. What's interesting is that they are restricted in content and bandwidth. There is a need to protect from inappropriate content and prevent downloads of copyrighted songs. Since all content is send to my IP address, this is prudent from a legal standpoint.

I am using a old 300Mhz computer with 2 network cards and a Linux CD ROM known as Knoppix. Since the OS is completely on the CD, it's read only and impossible to hack by installing a rootkit. All software is open source and available free of charge. There are only three ports open for the public user level. Web access on port 80, SSL for secure Web on port 443, and port 110 for POP3 email. Logins are authenticated by a Radius server. There is a superuser level that allows unrestricted access for authorized individuals.

Security for the LAN is provided by using different subnets. My local address space is 192.168.x.x and the wireless clients are assigned by DHCP from a 10.10.10.x pool of addresses. Since WEP has known vulnerability issues, I decided to open up my AP to provide a community service and protect my LAN by other means. No hassles associated with WEP keys or SSIDs to be kept up with.

Information on the CD ROM is here:
http://www.publicip.net

My access point is an Engenius (Senao) 200mW mounted in a sprinkler system control box very similar to the one on N5OOM's HSMM projects page. It's powered using a homebrew PoE injector and a wall wart. Only one wire to go up the mast.

73,
Rick
W5TUX

221. Re: Maxrad 8db Omni antennas

Yahoo group: DAWG-HSMM
Date: 2004-08-19 15:56:03 UTC
From: J. Beadles
Topic: 169 Message: 221

All,

Sorry for the delay - it took a while to get solid contact info. The antennas are still available. There are at least 25 available and maybe more at $20 each.

These are taken out of service and are 2.4 GHz 8dB antennas (abt 2 ft tall) with a female N connector. They are believed to have a 6 degree electrical downtilt, so these are better for high mounting.

There is no mounting hardware, but the N connector is threaded for a bulkhead nut. The general idea is that you drill a hole in some angle iron and bolt the antenna to the angle by the connector.

I have requests for the following:

4 - N5OOM (John)
2 - KC5QHH (Randy)
3 - K5ZMJ (John)
2 - N5UDS (Gene)
2 - W5ADC (Tony)
2 - KD5YBI (Tom)
1 - N5UIG (Dee)

I may be missing some requests, so if your name isn't here, please remind me. Your best bet is to respond to the list rather than to my personal email. Thanks to N5SKE, N0XLR and KD5PQA for bringing these to our attention.

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
> All,
>
> A buddy of N0XLR wants to get rid of 20 Maxrad 8db Omni antennas.
> These antennas stand 17" tall, are 2.4GHz to 2.5GHZ and will work
on
> 802.11b / 802.11g. He wants $20 each and wants to get rid of them
in
> bulk, so I'll coordinate the group buy. Anybody interested please
> contact me.
>
> beadles@n...
> 972-685-8713 (daytime)
> 972-898-0843 (evenings)

223. Low budget options for WiFi

Yahoo group: DAWG-HSMM
Date: 2004-08-20 00:08:46 UTC
From: Brett Neilson
Topic: 218 Message: 223

Thought we might be able to use these ideas for some additional equipment :)

Enjoy...

http://www.usbwifi.orcon.net.nz/

Brett Neilson - KC7IIB
brett@...
http://www.brettneilson.com

GPG Public Key ID: 0x69759F44

[Non-text portions of this message have been removed]

224. Fw: [ntms-hsmm] Re: Maxrad 8db Omni antennas

Yahoo group: DAWG-HSMM
Date: 2004-08-20 18:32:10 UTC
From: J. Beadles
Topic: 224 Message: 224

Tim,

I think so, though I'm notoriously bad about shipping stuff. You may have to whip me into getting it done. So, after I confirm that I have them, be sure to send me a reminder.

--- In ntms-hsmm@yahoogroups.com, "Tim and Lisa Weikert" <kc7dcw@h...> wrote:
> First, would you be able to ship them to Beaufort, SC 29906. I will send a money order for the price plus shipping, just let me know what the total will be.
> Second, if you can ship them, I will take two, trying to get some others interested in HSMM up here.
>
> Thanks for all the great ideas on this forum
> Tim
> kc7dcw@a...
> Beaufort Water Search and Rescue
> Communications Offficer
> Dive Operations Officer
> ----- Original Message -----
> From: J. Beadles
> To: ntms-hsmm@yahoogroups.com
> Sent: Thursday, August 19, 2004 11:56 AM
> Subject: [ntms-hsmm] Re: Maxrad 8db Omni antennas
>
>
> All,
>
> Sorry for the delay - it took a while to get solid contact info. The
> antennas are still available. There are at least 25 available and
> maybe more at $20 each.
>
> These are taken out of service and are 2.4 GHz 8dB antennas (abt 2 ft
> tall) with a female N connector. They are believed to have a 6
> degree electrical downtilt, so these are better for high mounting.
>
> There is no mounting hardware, but the N connector is threaded for a
> bulkhead nut. The general idea is that you drill a hole in some
> angle iron and bolt the antenna to the angle by the connector.
>
> I have requests for the following:

>
> 4 - N5OOM (John)
> 2 - KC5QHH (Randy)
> 3 - K5ZMJ (John)
> 2 - N5UDS (Gene)
> 2 - W5ADC (Tony)
> 2 - KD5YBI (Tom)
> 1 - N5UIG (Dee)
>
> I may be missing some requests, so if your name isn't here,
please
> remind me. Your best bet is to respond to the list rather than
to my
> personal email. Thanks to N5SKE, N0XLR and KD5PQA for bringing
these
> to our attention.
>
> --- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...>
wrote:
> > All,
> >
> > A buddy of N0XLR wants to get rid of 20 Maxrad 8db Omni
antennas.
> > These antennas stand 17" tall, are 2.4GHz to 2.5GHZ and will
work
> on
> > 802.11b / 802.11g. He wants $20 each and wants to get rid of
them
> in
> > bulk, so I'll coordinate the group buy. Anybody interested
please
> > contact me.
> >
> > beadles@n...
> > 972-685-8713 (daytime)
> > 972-898-0843 (evenings)
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>
>
> [Non-text portions of this message have been removed]

225. Re: Low budget options for WiFi

Yahoo group: DAWG-HSMM
Date: 2004-08-20 18:34:44 UTC
From: J. Beadles
Topic: 218 Message: 225

--- In ntms-hsmm@yahoogroups.com, "Brett Neilson" <hsmm@b...> wrote:
> Thought we might be able to use these ideas for some additional
equipment :)
>
> Enjoy...
>
> http://www.usbwifi.orcon.net.nz/

Y'know, I think that's a nifty idea. I have an unused 3" parabolic
that this could be done to.

226. Re: Plano Balloon Fest

Yahoo group: DAWG-HSMM
Date: 2004-08-24 01:25:06 UTC
From: keith110ap
Topic: 179 Message: 226

Tony,

I will have two tents and MAYBE a trailer on the North end of the field. We will have electric there also. If needed, you can mount a bridge at that location and cover the field with no problem.

Let me know what you need and we can look it over.

Keith KEØFV

--- In ntms-hsmm@yahoogroups.com, "radiorandr" <tony@w...> wrote:
> As you have probably gathered by reading some of the recent
> messages, the Plano Balloon Fest will be held September 17 - 19. I
> have agreed to be responsible for the coordination of the HSMM
> support for this event. I am looking to you and your friends to
> assist me with the planning and execution of this event. Last year
> we had some limited support but proved to ourselves and the event
> organizers it's worth.
>
> The purpose of our support is to enhance the safety of the event
for
> ourselves, the balloonist and the public. To provide this support
> we will have the following goals in the order listed below:
>
> 1. Provide near real-time graphical weather information.
> 2. Provide support for APRS application sharing.
> 3. Provide support for Webcams in key areas.
> 4. Practice deployment of HSMM networks in support of public
> service events.
>
> We would like to provide coverage at the following locations.
Again
> in general order of importance:
>
> 1. Launch Field
> 2. Recovery staging area. Either Garden Ridge Mall Parking Lot or
> Jupiter and 15th.
> 3. Southfork Hotel
> 4. Refuelling area
>
> While there is reasonable time left, there is a lot to do. Below
is
> a general schedule for preparations for the event. The dates will
> be finalized as soon as possible.
>
> Aug 1 General Meeting (Location TBD)

> Aug 2 - 8 Site Surveys
> Aug 9 - 21 Network Design
> Aug 22 - 28 Equipment Commitments
> Aug 29 - 11 Subsystem Test (Location TBD)
> Sept 12 System Test at Field
> Sept 17 Setup at Field and Final Equipment Test
(Morning)
> Sept 17 - 19 Event Support
> Sept 19 Equipment Removal (Evening)
>
> We will need to have a few "all-hands" meeting during the planning
> stages, but I will try and keep these as few as possible. I would
> be interested hearing you if you are interested. While I would
like
> to have initial meeting on August 1 (a Sunday), if this date is not
> good for most of you, just let me know and we can reschedule it.
>
> Thanks,
>
> Tony
> W5ADC
> 972-342-1729

228. RE: [ntms-hsmm] Re: Plano Balloon Fest

Yahoo group: DAWG-HSMM
Date: 2004-08-24 01:38:34 UTC
From: Anthony 'Tony' Campbell
Topic: 179 Message: 228

Thanks for the offer. This may be very helpful. I will be in touch with you soon.

Tony

-----Original Message-----
From: keith110ap [mailto:berryko@...]
Sent: Monday, August 23, 2004 8:25 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Plano Balloon Fest

Tony,

I will have two tents and MAYBE a trailer on the North end of the field. We will have electric there also. If needed, you can mount a bridge at that location and cover the field with no problem.

Let me know what you need and we can look it over.

Keith KEØFV

--- In ntms-hsmm@yahoogroups.com, "radiorandr" <tony@w...> wrote:
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> messages, the Plano Balloon Fest will be held September 17 - 19. I
> have agreed to be responsible for the coordination of the HSMM
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> assist me with the planning and execution of this event. Last year
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> organizers it's worth.
>
> The purpose of our support is to enhance the safety of the event
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> ourselves, the balloonist and the public. To provide this support
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> in general order of importance:
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> to have initial meeting on August 1 (a Sunday), if this date is not
> good for most of you, just let me know and we can reschedule it.
>
> Thanks,
>
> Tony
> W5ADC
> 972-342-1729

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229. Re: [ntms-hsmm] Re: Plano Balloon Fest

Yahoo group: DAWG-HSMM
Date: 2004-08-24 02:14:49 UTC
From: Keith Berry
Topic: 179 Message: 229

Also, it might be a good spot for a Stick-up..er..web cam. ;-)

Keith KEØFV

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----- Original Message -----
From: Anthony 'Tony' Campbell
To: ntms-hsmm@yahoogroups.com
Sent: Monday, August 23, 2004 20:38
Subject: RE: [ntms-hsmm] Re: Plano Balloon Fest

Thanks for the offer. This may be very helpful. I will be in touch with
you soon.

Tony

-----Original Message-----
From: keith110ap [mailto:berryko@...]
Sent: Monday, August 23, 2004 8:25 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Plano Balloon Fest

Tony,

I will have two tents and MAYBE a trailer on the North end of the
field. We will have electric there also. If needed, you can mount a
bridge at that location and cover the field with no problem.

Let me know what you need and we can look it over.

Keith KEØFV

--- In ntms-hsmm@yahoogroups.com, "radiorandr" <tony@w...> wrote:
> As you have probably gathered by reading some of the recent
> messages, the Plano Balloon Fest will be held September 17 - 19. I
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> support for this event. I am looking to you and your friends to
> assist me with the planning and execution of this event. Last year
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> we will have the following goals in the order listed below:
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> service events.
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> in general order of importance:
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> We will need to have a few "all-hands" meeting during the planning
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> be interested hearing you if you are interested. While I would
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> to have initial meeting on August 1 (a Sunday), if this date is not

> good for most of you, just let me know and we can reschedule it.
>
> Thanks,
>
> Tony
> W5ADC
> 972-342-1729

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[Non-text portions of this message have been removed]

230. Report on Plano Balloon Fest Field Test 2

Yahoo group: DAWG-HSMM
Date: 2004-08-24 02:41:10 UTC
From: radiorandr
Topic: 230 Message: 230

I would like to thank everyone for there help on Sunday to continue the testing of the WiFi system that we will be using to support the PBF. At the test we erected an approximately 25 ft mast at the proposed location of the festival com trailer. At the top of the mast was installed a WAP11 access point and a webcam. The WAP11 was equipped with a 6 dBi antenna pointed toward the field. At the far end of field was installed a WET11 and another WAP11 configured as a bridge. This equipment was configured to provide coverage in the kid's play area and as a possible location for a Webcam. Additionally attempts were made to provide access points and webcams at two other locations.

Lessons Learned (in no order of importance)

1. It's beginning to get dark sooner. We started at 7:00 pm and by 8:30 pm it was really beginning to get dark.
2. We need to preplan our IP addressing a little better.
3. Any equipment we use will have to be robust and be able to operate unattended unless other special considerations are made.
4. We need to plan of multiple Internet feeds into the facility. Purely online has agreed to provide the feed, but we may have trees in the way.
5. It looks like the webcams may be the hardest part of the whole project.
6. The AS2236 mast systems will probably need ballast on the feet to prevent nervous looks at the antennas. A few close guy wires might also improve the look of the system.
7. All equipment not located at the comm. trailer should be battery powered. The battery system should supply at least 8 hours operation with a secondary battery available.

Recommendations for network configuration at the Plano Balloon Fest

IP Addressing Scheme

The following is the recommended network IP addressing scheme. I will assign all IP addresses before the event. Please contact me if you would like to supply equipment. The following is a preliminary list. Suggestions are welcome.

192.168.1.1 Main DHCP Router (W5ADC)
192.168.1.2 Main AP WAP11 located at the comm. trailer (W5ADC)
192.168.1.3 Local Repeater (N5OOM)
192.168.1.4 Remote Bridge (W5ADC)
192.168.1.5 Remote AP (W5ADC)
192.168.1.6 ☐

192.168.1.7 ☐
192.168.1.8 ☐
192.168.1.9 ☐
192.168.1.10 -

192.168.1.11 IP Camera 1 (Comm Trailer)
192.168.1.12 IP Camera 2 (Field Entrance)
192.168.1.13 IP Camera (Kid's Area)
192.168.1.14 ☐
192.168.1.15 ☐
192.168.1.16 ☐
192.168.1.17 ☐
192.168.1.18 ☐
192.168.1.19 ☐
192.168.1.20 ☐

192.168.1.100 Series Local Computers

Wireless Channel Assignments

The following are our working wireless channel assignments.

Channel 1 Primary AP
Channel 11 Remote AP

If repeaters are used they will repeat off the primary channel if possible.

We believe that another user will be utilizing channel 6 during the event. We will investigate at the time the event begins.

Webcams

We will plan to cover three primary areas during the event. Below are the primary locations and the equipment to be provided.

Main Field It will be desirable to have a high quality camera equipped with a zoom lens and pan/tilt head. A control panel in the trailer can manually operate these controls. If required the camera can be interfaced with a computer that will be supplied as part of the networking equipment.

Field Entrance This camera will be positioned at the field entrance to monitor the balloon as they enter and leave the field. It will be desirable for this system to be self contained, battery powered and provided in a weatherproof housing. The equipment can be located with the bridge system that will be at this location. An IP enabled camera will be desired.

Fun Zone This camera will be used to monitor the Fun Zone at the PBF. It will be desirable for this system to be self contained, battery powered and provided in a weatherproof housing. The camera will be located remotely from other network equipment. It should be

equipped with a WiFi interface.

Refueling This camera is likely to be interconnected to the comm. trailer via a 70 cm wireless link. After being received at the comm. trailer the signal will be digitized and transmitted over the Internet.

These cameras will have to be extensively tested before the event. Also, a webmaster will have to be appointed to work out these details.

The image size and frame rate will also be standardized to 640x480 and one frame every 5 seconds. It will be desirable to store these images for the duration of the event as a record.

We will likely have another meeting in the next few weeks. In the mean time I will be confirming with various individuals their specific assignments in support of this effort.

Thanks,

Tony
W5ADC

231. 04 PBF webcams

Yahoo group: DAWG-HSMM
Date: 2004-08-30 03:33:02 UTC
From: J. Beadles
Topic: 231 Message: 231

Well, I think my webcam is dead. Phoo!

232. Re: [ntms-hsmm] 04 PBF webcams

Yahoo group: DAWG-HSMM
Date: 2004-08-30 22:03:26 UTC
From: W Miller K2CHP
Topic: 231 Message: 232

I'll take it as a "power not available" and not possible to park my SUV nearby the location you'd like to have a webcam or two?

If that's the case it looks like I'll be joining the recovery circus again :-)

=====
W Miller K2CHP
Richardson TX

233. Re: [ntms-hsmm] 04 PBF webcams

Yahoo group: DAWG-HSMM
Date: 2004-09-03 19:03:15 UTC
From: W Miller K2CHP
Topic: 231 Message: 233

Any updates on meetings,test sessions,etc?

I have a new 700x digital zoom video camera that I can
man at one of the webcam locations or where ops is
going to be,I can go mobile as I had done at the
Richardson Wild Ride this past spring.

=====
W Miller K2CHP
Richardson TX

234. Networked Webcams at Best Buy

Yahoo group: DAWG-HSMM
Date: 2004-09-09 03:59:55 UTC
From: J. Beadles
Topic: 234 Message: 234

Best Buy has rebates on the Dlink DCS-900 (wired ethernet) and DCS-900W (802.11b). These are the small webcams, details at:

http://www.dlink.com/products/category.asp?cid=60

The DCS-900 is $99 with a $40 rebate, the DCS-900W about $20 more. I picked up a DCS-900. The lens is not replacable for other lenses. Also, it appears that it does not provide a frame FTP option. However, it does display a frame on the units main web page, and a separate perl application could be written to periodically get that image.

235. Re: [ntms-hsmm] Networked Webcams at Best Buy

Yahoo group: DAWG-HSMM
Date: 2004-09-09 05:01:16 UTC
From: Ron Cole
Topic: 234 Message: 235

Do you not have direct access to the Webcam Image?

I use curl to fetch an image from the camera once a
minute and post process it keying a Title on the image
then posting it on a Webpage.

The FTP "Client" in the dLink DCS-1000 camera was/is
useless and the Server PC cron job was the only
soultion.

By the way the Video is really lousy. But then I come
from a TV Engineering/Professional Film Photography
background. So I expect more from a camera.....

I guess for >$200 on a Web Cam you cant get much of a
picture. From what I can tell I have to spend <$1000
to get a decent Web Cam so I won't own one any time
soon.

Ron
N5HYH

--- "J. Beadles" <jbeadles@...> wrote:

> Best Buy has rebates on the Dlink DCS-900 (wired
> ethernet) and DCS-
> 900W (802.11b). These are the small webcams,
> details at:
>
> http://www.dlink.com/products/category.asp?cid=60
>
>
> The DCS-900 is $99 with a $40 rebate, the DCS-900W
> about $20 more. I
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> However, it does display a frame on the units main
> web page, and a
> separate perl application could be written to
> periodically get that
> image.
>
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> ntms-hsmm-unsubscribe@yahoogroups.com
>
>
>
>

=====
Ron

Do you Yahoo!?
New and Improved Yahoo! Mail - Send 10MB messages!
http://promotions.yahoo.com/new_mail

236. Re: Plano Balloon Fest Update

Yahoo group: DAWG-HSMM
Date: 2004-09-10 03:19:59 UTC
From: jbeadles@pobox.com
Topic: 236 Message: 236

Looks good. Geocities also fires some add pages, which is irritating.

On 9 Sep 2004 at 18:55, Anthony Campbell wrote:

> First, I would like to clarify one point. I did not
> fall off the end of the earth. I was having the
> strangest email problem. I was sending messages, but
> no one was receiving them.
>
> Well, things are looking up. If you will take a look
> at www.geocites.com/w5adc you should see multiple
> webcam up.
>
> Also, I would like to thank Doug KD5OUG for his work
> on getting a internet feed from one of the local home
> builders. While this has not been fully proven out,
> it is looking really good.
>
> The next meeting will be at 1:30 pm on Sunday. We
> will attempt a full up test of the system. I think
> all of the pieces are in place we have have to put
> them together.
>
> I would like to thank everyone for their hard work so
> far and the end is near.
>
> Tony
> W5ADC
> 972-342-1729
>

237. Plano Balloon Fest HSMM Meeting

Yahoo group: DAWG-HSMM
Date: 2004-09-12 02:20:16 UTC
From: Anthony Campbell
Topic: 237 Message: 237

Just as a reminder, there will be a meeting tomorrow, Sunday September 12, at 1:30 pm. The meeting will be at the launch field. The following will be primary objectives of the meeting:

1. Finalize the installation of the link from the model home to the field.

2. Test coverage and install a bridge as required.

3. Pick final locations for the webcam and test interconnectivity.

4. Finalize wireless security plans. Most likely we will us MAC address filtering.

5. Finalize assignments of IP addresses.

6. Test ATV link.

7. Get committments for technical assistance and support during the event.

Well that sounds like enough for this meeting. I hope to see you all there tomorrow.

Thanks,

Tony
W5ADC
972-342-1729

238. Re: [ntms-hsmm] Plano Balloon Fest HSMM Meeting

Yahoo group: DAWG-HSMM
Date: 2004-09-12 02:47:33 UTC
From: Bruce Dingman
Topic: 237 Message: 238

sorry I can't make it tomorrow Tony, Be in East texas most of the afternoon. If you would, fill me in later on what I may need to know.
Thanks,
Bruce
----- Original Message -----
From: Anthony Campbell <radiorandr@...>
Date: Sat, 11 Sep 2004 19:20:16 -0700 (PDT)
To: HSMM Group <ntms-hsmm@yahoogroups.com>
Subject: [ntms-hsmm] Plano Balloon Fest HSMM Meeting

> Just as a reminder, there will be a meeting tomorrow,
> Sunday September 12, at 1:30 pm. The meeting will be
> at the launch field. The following will be primary
> objectives of the meeting:
>
> 1. Finalize the installation of the link from the
> model home to the field.
>
> 2. Test coverage and install a bridge as required.
>
> 3. Pick final locations for the webcam and test
> interconnectivity.
>
> 4. Finalize wireless security plans. Most likely we
> will us MAC address filtering.
>
> 5. Finalize assignments of IP addresses.
>
> 6. Test ATV link.
>
> 7. Get committments for technical assistance and
> support during the event.
>
> Well that sounds like enough for this meeting. I hope
> to see you all there tomorrow.
>
> Thanks,
>
> Tony
> W5ADC
> 972-342-1729
>
>

--

_____
Sign-up for Ads Free at Mail.com
http://promo.mail.com/adsfreejump.htm

239. Re: Plano Balloon Fest Meeting

Yahoo group: DAWG-HSMM
Date: 2004-09-12 04:35:28 UTC
From: Douglas Kilgore
Topic: 239 Message: 239

I'll be there.

Doug Kilgore KD5OUG

Anthony Campbell wrote:
>
> Just as a reminder, there will be a meeting tomorrow,
> Sunday September 12, at 1:30 pm. The meeting will be
> at the launch field. The following will be primary
> objectives of the meeting:
>
> 1. Finalize the installation of the link from the
> model home to the field.
>
> 2. Test coverage and install a bridge as required.
>
> 3. Pick final locations for the webcam and test
> interconnectivity.
>
> 4. Finalize wireless security plans. Most likely we
> will us MAC address filtering.
>
> 5. Finalize assignments of IP addresses.
>
> 6. Test ATV link.
>
> 7. Get committments for technical assistance and
> support during the event.
>
> Well that sounds like enough for this meeting. I hope
> to see you all there tomorrow.
>
> Thanks,
>
> Tony
> W5ADC
> 972-342-1729

240. Fw: [ntms-hsmm] Re: Maxrad 8db Omni antennas

Yahoo group: DAWG-HSMM
Date: 2004-09-14 21:26:22 UTC
From: J. Beadles
Topic: 224 Message: 240

All,

Sorry for the delay! Balloon Festival related activities have me
working overtime. Anyway, I did finally pick up these antennas.
They are as advertised, but with a 7 degree downtilt. Here's a
potential catch - My source does not know for sure, but believes that
the antennas are supposed to be hung upside down from the ceiling so
that the downtilt points that way.

Anyway, I have the 12 in my posession.

Brent,

If your buddy still wants some, I'll pick them up after I recoup some
of the funds from this set.

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:

>> > All,
> >
> > Sorry for the delay - it took a while to get solid contact
info.
> The
> > antennas are still available. There are at least 25 available
and
> > maybe more at $20 each.
> >
> > These are taken out of service and are 2.4 GHz 8dB antennas
(abt
> 2 ft
> > tall) with a female N connector. They are believed to have a 6
> > degree electrical downtilt, so these are better for high
mounting.
> >
> > There is no mounting hardware, but the N connector is threaded
> for a
> > bulkhead nut. The general idea is that you drill a hole in
some
> > angle iron and bolt the antenna to the angle by the connector.
> >
> > I have requests for the following:
> >
> > 4 - N5OOM (John)
> > 2 - KC5QHH (Randy)
> > 3 - K5ZMJ (John)
> > 2 - N5UDS (Gene)

> > 2 - W5ADC (Tony)
> > 2 - KD5YBI (Tom)
> > 1 - N5UIG (Dee)
> >
> > I may be missing some requests, so if your name isn't here,
> please
> > remind me. Your best bet is to respond to the list rather than
> to my
> > personal email. Thanks to N5SKE, N0XLR and KD5PQA for bringing
> these
> > to our attention.
> >
> > --- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...>
> wrote:
> > > All,
> > >
> > > A buddy of N0XLR wants to get rid of 20 Maxrad 8db Omni
> antennas.
> > > These antennas stand 17" tall, are 2.4GHz to 2.5GHZ and will
> work
> > on
> > > 802.11b / 802.11g. He wants $20 each and wants to get rid of
> them
> > in
> > > bulk, so I'll coordinate the group buy. Anybody interested
> please
> > > contact me.
> > >
> > > beadles@n...
> > > 972-685-8713 (daytime)
> > > 972-898-0843 (evenings)
> >
> >
> >
> >
> >
> > Yahoo! Groups Sponsor
> > ADVERTISEMENT
> >
> >
> >
> >
> >
> > ---
--
> ----------
> > Yahoo! Groups Links
> >
> > a.. To visit your group on the web, go to:
> > http://groups.yahoo.com/group/ntms-hsmm/

> >
> > b.. To unsubscribe from this group, send an email to:
> > ntms-hsmm-unsubscribe@yahoogroups.com
> >
> > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
of
> Service.
> >
> >
> >
> > [Non-text portions of this message have been removed]

241. Re: Fw: [ntms-hsmm] Re: Maxrad 8db Omni antennas

Yahoo group: DAWG-HSMM
Date: 2004-09-14 21:37:27 UTC
From: Tom Bresee
Topic: 224 Message: 241

I believe I ordered two (or maybe one), don't remember, but
let me know how i need to pay ya!

Tom Bresee

--- "J. Beadles" <jbeadles@...> wrote:

> All,
>
> Sorry for the delay! Balloon Festival related activities have me
> working overtime. Anyway, I did finally pick up these antennas.
> They are as advertised, but with a 7 degree downtilt. Here's a
> potential catch - My source does not know for sure, but believes that
> the antennas are supposed to be hung upside down from the ceiling so
> that the downtilt points that way.
>
> Anyway, I have the 12 in my posession.
>
> Brent,
>
> If your buddy still wants some, I'll pick them up after I recoup some
> of the funds from this set.
>
> --- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
> >> > All,
> > >
> > > Sorry for the delay - it took a while to get solid contact
> info.
> > The
> > > antennas are still available. There are at least 25 available
> and
> > > maybe more at $20 each.
> > >
> > > These are taken out of service and are 2.4 GHz 8dB antennas
> (abt
> > 2 ft
> > > tall) with a female N connector. They are believed to have a 6
> > > degree electrical downtilt, so these are better for high
> mounting.
> > >
> > > There is no mounting hardware, but the N connector is threaded
> > for a
> > > bulkhead nut. The general idea is that you drill a hole in
> some
> > > angle iron and bolt the antenna to the angle by the connector.

> > >
> > > I have requests for the following:
> > >
> > > 4 - N5OOM (John)
> > > 2 - KC5QHH (Randy)
> > > 3 - K5ZMJ (John)
> > > 2 - N5UDS (Gene)
> > > 2 - W5ADC (Tony)
> > > 2 - KD5YBI (Tom)
> > > 1 - N5UIG (Dee)
> > >
> > > I may be missing some requests, so if your name isn't here,
> > please
> > > remind me. Your best bet is to respond to the list rather than
> > to my
> > > personal email. Thanks to N5SKE, N0XLR and KD5PQA for bringing
> > these
> > > to our attention.
> > >
> > > --- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...>
> > wrote:
> > > > All,
> > > >
> > > > A buddy of N0XLR wants to get rid of 20 Maxrad 8db Omni
> > antennas.
> > > > These antennas stand 17" tall, are 2.4GHz to 2.5GHZ and will
> > work
> > > on
> > > > 802.11b / 802.11g. He wants $20 each and wants to get rid of
> > them
> > > in
> > > > bulk, so I'll coordinate the group buy. Anybody interested
> > please
> > > > contact me.
> > > >
> > > > beadles@n...
> > > > 972-685-8713 (daytime)
> > > > 972-898-0843 (evenings)
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Sponsor
> > > ADVERTISEMENT
> > >
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> > > ----------
> --
> > ----------
> > > Yahoo! Groups Links
> > >
> > > a.. To visit your group on the web, go to:
> > > http://groups.yahoo.com/group/ntms-hsmm/
> > >
> > > b.. To unsubscribe from this group, send an email to:
> > > ntms-hsmm-unsubscribe@yahoogroups.com
> > >
> > > c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms
> of
> > Service.
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
>
>

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Declare Yourself - Register online to vote today!
http://vote.yahoo.com

242. Maxrad Antenna Info

Yahoo group: DAWG-HSMM
Date: 2004-09-15 15:02:14 UTC
From: Randall Dunning
Topic: 242 Message: 242

The Maxrad XtremeWave MFB24008DT7 is the antenna that is being made available
and if you consult the Maxrad Webpage,

See:
http://www.maxrad.com/cgi/maxrad_products_ind.cgi?product=10068&catalog=10002

you will discover that the "7 degree down tilt" is 7 degrees toward 90 degrees.
Since, by convention, 90 deg. is considered "UP" in antenna elevation plots, the antenna signal pattern is canted toward the top of the whip by 7 degrees.
Thus the antenna must be mounted upside down to work properly. This should not
be much of a problem since most of the NMEA boxes we are using have the mounting
holes on the bottom. The vertical antenna pattern plot is available at:

http://www.maxrad.com/cgi/images/products/patterns/XtremeWaveOmniPatterns.pdf

The product flier for the MFB24008DT7 can be viewed at:

http://www.maxrad.com/cgi/images/products/pdf/XtremeWaveMFBOmnis.pdf

For those who have not figured it out already, the Maxrad nomenclature for this
antenna is:

MXB - Series
2400 - Frequency
8 - Horizontal gain in dB
DT7 - Down Tilt 7 degrees (when mounted inverted)

In addition, the $20 price tag is quite a deal as they can be ordered from the
usual suspects for around $75.00 USD. These antennas are pretty beefy and appear
to be genuine "industrial grade" antennas as opposed to some of the PVC wonders
floating about on Everyone Bids Against You.

Many thanks to John (N500M) for putting his lasso on these rascals.

RD

"Nearly all men can stand adversity, but if you
want to test a man's character, give him power."
--Abraham Lincoln

[Non-text portions of this message have been removed]

243. Fw: [ntms-hsmm] Re: Maxrad 8db Omni antennas

Yahoo group: DAWG-HSMM
Date: 2004-09-20 14:52:07 UTC
From: J. Beadles
Topic: 224 Message: 243

--- In ntms-hsmm@yahoogroups.com, Tom Bresee <tom_bresee@y...> wrote:
>
> I believe I ordered two (or maybe one), don't remember, but
> let me know how i need to pay ya!

Tom,

I set up Paypal, we can see if that will work, if you want. You can
try sending payment to jbeadles@....

244. 04 PBF and HSMM

Yahoo group: DAWG-HSMM
Date: 2004-09-20 14:55:14 UTC
From: J. Beadles
Topic: 244 Message: 244

Thanks to Tony W5ADC, Doug KD5OUG, Kevin KD5YVL and Bill K2CHP for working network issues and webcams at Balloon Festival. The network was instrumental in determining whether or not to fly the Saturday night flight by allowign access to weather radar. Not everything worked, but we are still working hardware and logistics issues. Tony, if you get the chance to write up a post-event report I'd sure appreciate it.

Thanks again all!

245. [Fwd: Mentorfest]

Yahoo group: DAWG-HSMM
Date: 2004-09-21 00:08:02 UTC
From: Douglas Kilgore
Topic: 245 Message: 245

Let's give this a try. Any volunteers.

Doug Kilgore KD5OUG

[Non-text portions of this message have been removed]

246. MentorFest

Yahoo group: DAWG-HSMM
Date: 2004-09-21 04:06:14 UTC
From: Douglas Kilgore
Topic: 246 Message: 246

Let's try this.

Doug

From: "AD5KZ" <ad5kz@...>
To: KD5OUG@...

Hi Doug,

I would like to invite you and your group working on Amateur Radio wireless networking to have a FREE table at the ARRL NTX Section Mentorfest that we're planning to have on October 23rd in Irving, TX. Check out the web site at http://www.ntxinfo.org/mentorfest/ for more information. This should be a good opportunity for you to show off what you've been doing and perhaps get some other people interested.

If you're interested, just let me know and I will reserve a table for you.

73,
Roy - AD5KZ

247. Re: [ntms-hsmm] [Fwd: Mentorfest]

Yahoo group: DAWG-HSMM
Date: 2004-09-21 12:42:50 UTC
From: jbeadles@pobox.com
Topic: 245 Message: 247

Didn't seem to come through, Doug.

On 20 Sep 2004 at 19:08, Douglas Kilgore wrote:

> Let's give this a try. Any volunteers.
>
> Doug Kilgore KD5OUG
>
> [Non-text portions of this message have been removed]
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

248. Article: Wardriving arrests

Yahoo group: DAWG-HSMM
Date: 2004-09-21 15:17:17 UTC
From: J. Beadles
Topic: 248 Message: 248

So be careful what you connect to...

http://reviews-zdnet.com.com/AnchorDesk/4520-7297_16-5511088.html?tag=adss

249. Mentorfest

Yahoo group: DAWG-HSMM
Date: 2004-09-24 02:39:29 UTC
From: Joe Jurecka
Topic: 249 Message: 249

Just recovering from a HDD crash.
NTMS will have a setting at Mentorfest. Doug/John/Anyone else who would like to join, Wes Atchison and Bob Gormley have volunteered for the weak signal side of it. Do I need to get two tables?

reply to jurecka@... if I do!
Joe

250. Re: Mentorfest

Yahoo group: DAWG-HSMM
Date: 2004-09-24 14:13:22 UTC
From: J. Beadles
Topic: 249 Message: 250

--- In ntms-hsmm@yahoogroups.com, "Joe Jurecka" <n5pyk@h...> wrote:
> Just recovering from a HDD crash.
> NTMS will have a setting at Mentorfest. Doug/John/Anyone else who
would
> like to join, Wes Atchison and Bob Gormley have volunteered for the
weak
> signal side of it. Do I need to get two tables?

Yeah, Roy dragged me in for the APRS presentation side of the house.

251. Information on Slotted Wave Guide Antennas for 802.11b

Yahoo group: DAWG-HSMM
Date: 2004-09-24 20:20:04 UTC
From: Randall Dunning
Topic: 251 Message: 251

There is an excellent article on Slotted Wave Guide Antennas
that has plans, horizontal and vertical pattern gain diagrams,
and gain charts. There is also a nifty animation on how these
things work.

Directional SWG antennas may be just the ticket for low
cost sector antennas that can be used to experiment with
slaying the noise dragon that has manifest at the last couple
of HSMM supported public service events.

http://www.trevormarshall.com/waveguides.htm
<http://www.trevormarshall.com/waveguides.htm>

73,

RD

[Non-text portions of this message have been removed]

252. Antenna Isolation Tech Note for WiFi Base Antennas

Yahoo group: DAWG-HSMM
Date: 2004-09-24 20:45:07 UTC
From: Randall Dunning
Topic: 252 Message: 252

Here is an article on how to calculate isolation when planning WiFi node placement.

http://www.pacwireless.com/products/tech_notes/Antenna_Isolation.pdf
<http://www.pacwireless.com/products/tech_notes/Antenna_Isolation.pdf>

On-Line antenna isolation calculator resources:
http://my.athenet.net/~multiplx/cgi-bin/isolation.main.cgi
<http://my.athenet.net/~multiplx/cgi-bin/isolation.main.cgi>

http://www.guerrilla.net/gnet_engr_bench.html
<http://www.guerrilla.net/gnet_engr_bench.html>

Have fun!

RD

[Non-text portions of this message have been removed]

253. Plano Balloon Fest 2004 After Action Report

Yahoo group: DAWG-HSMM
Date: 2004-10-02 01:40:48 UTC
From: Anthony Campbell
Topic: 253 Message: 253

After Action Report
Plano Balloon Fest 2004 HSMM Activity

As part of the amateur radio communications support for the Plano Balloon Fest 2004. Our primary goal was to provide an Internet connection to allow for real time weather updates during the event. Additional goals were to position several web cams at the venue to monitor critical area and to provide a simple means to interchange files within between several locations including APRS data.

The configuration consisted of an access point located at a model home near the venue. This was interconnected to the provided cable modem router used at that location. Yes, permission was given. We then installed a Linksys WET11 on a 25 ft mast over 1000 foot away. Local computers were then connected to the WET11 via a switch. All of the equipment was operated under Part 15. This was established and while not the fastest connection in the world it did work just fine.

We did encounter some interference from a 2.4 GHz cordless phone at the model home. This issue was resolved by changing from channel 1 to 11. We then connected a Linksys WAP11 to the switch. This is when the real problems began. Even though the WAP11 was configured to operate on channel 1 there seemed to be some interference between the two devices. Even after replacing the WAP11 we still encounter the same problem. Since it was getting close to the time of the event we abandon using the WAP11. The other computers that were required to be connected were close enough to hardwire them. With this operational we were to accomplish our primary goals.

This problem is puzzling, because several days before the event the same equipment was used and it work flawlessly but on different channel assignments. This issue will require further investigations.

We were able to establish four web cams for the event. Two of the cameras were connected to the local switch and the traffic routed over the wireless link. One camera located on a adjacent building and this was routed to the event website. The last camera was used

on the field. It directly connected to the model home access point.

What did we learn? There is a reason for having both commercial and home equipment. We suspected that we were having some heat related issues with some of the equipment. It was pretty obvious that we were having mutual interference issues. This should not have been an issue due to both physical and frequency separation. We could have attempted to use some more directional antennas, but this would have violated part 15. During the course of the event we also attempted to establish a internet link via a 900 MHz internet provider. This did not work due to the trees that blocked the path. In conclusion, we did accomplish our primary goals for the event but this was not without unexpected issues.

Tony
W5ADC

254. Re: [ntms-hsmm] Plano Balloon Fest 2004 After Action Report

Yahoo group: DAWG-HSMM
Date: 2004-10-02 02:18:41 UTC
From: Bob and Debbie Kmak
Topic: 253 Message: 254

Thanks Tony.

----- Original Message -----
From: "Anthony Campbell" <radiorandr@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Friday, October 01, 2004 8:40 PM
Subject: [ntms-hsmm] Plano Balloon Fest 2004 After Action Report

>
> After Action Report
> Plano Balloon Fest 2004 HSMM Activity
>
>
> As part of the amateur radio communications support
> for the Plano Balloon Fest 2004. Our primary goal was
> to provide an Internet connection to allow for real
> time weather updates during the event. Additional
> goals were to position several web cams at the venue
> to monitor critical area and to provide a simple means
> to interchange files within between several locations
> including APRS data.
>
> The configuration consisted of an access point located
> at a model home near the venue. This was
> interconnected to the provided cable modem router used
> at that location. Yes, permission was given. We then
> installed a Linksys WET11 on a 25 ft mast over 1000
> foot away. Local computers were then connected to the
> WET11 via a switch. All of the equipment was operated
> under Part 15. This was established and while not the
> fastest connection in the world it did work just fine.
>
> We did encounter some interference from a 2.4 GHz
> cordless phone at the model home. This issue was
> resolved by changing from channel 1 to 11. We then
> connected a Linksys WAP11 to the switch. This is when
> the real problems began. Even though the WAP11 was
> configured to operate on channel 1 there seemed to be
> some interference between the two devices. Even after
> replacing the WAP11 we still encounter the same
> problem. Since it was getting close to the time of
> the event we abandon using the WAP11. The other
> computers that were required to be connected were
> close enough to hardwire them. With this operational
> we were to accomplish our primary goals.

>
> This problem is puzzling, because several days before
> the event the same equipment was used and it work
> flawlessly but on different channel assignments. This
> issue will require further investigations.
>
> We were able to establish four web cams for the event.
> Two of the cameras were connected to the local switch
> and the traffic routed over the wireless link. One
> camera located on a adjacent building and this was
> routed to the event website. The last camera was used
> on the field. It directly connected to the model home
> access point.
>
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> commercial and home equipment. We suspected that we
> were having some heat related issues with some of the
> equipment. It was pretty obvious that we were having
> mutual interference issues. This should not have been
> an issue due to both physical and frequency
> separation. We could have attempted to use some more
> directional antennas, but this would have violated
> part 15. During the course of the event we also
> attempted to establish a internet link via a 900 MHz
> internet provider. This did not work due to the trees
> that blocked the path. In conclusion, we did
> accomplish our primary goals for the event but this
> was not without unexpected issues.
>
> Tony
> W5ADC
>
>
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>
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>
> Yahoo! Groups Links
>
>
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>
>

255. Re: [ntms-hsmm] Re: Mentorfest

Yahoo group: DAWG-HSMM
Date: 2004-10-11 18:35:48 UTC
From: Douglas Kilgore
Topic: 249 Message: 255

I'm back from vacation.

For the HSM part, I propose that we have a laptop showing pictures of some of our installations at events. I have a bunch of pictures as do others. In addition we could have several of the antenna/accesspoints on tripods just to show what can be done.

We could also set up a live wireless internet connection if there is a high speed connection in the building or availble from outside.

Who has been in contact with the folks setting up the room?

Doug Kilgore KD5OUG

"J. Beadles" wrote:
>
> --- In ntms-hsmm@yahoogroups.com, "Joe Jurecka" <n5pyk@h...> wrote:
> > Just recovering from a HDD crash.
> > NTMS will have a setting at Mentorfest. Doug/John/Anyone else who
> would
> > like to join, Wes Atchison and Bob Gormley have volunteered for the
> weak
> > signal side of it. Do I need to get two tables?
>
> Yeah, Roy dragged me in for the APRS presentation side of the house.
>

256. Need HSMM Help with Mentorfest

Yahoo group: DAWG-HSMM
Date: 2004-10-17 21:11:04 UTC
From: Douglas Kilgore
Topic: 256 Message: 256

This coming Saturday, Oct. 23, the North Texas Section ARRL is sponsoring Mentorfest. Time is 8:00am - 3:30pm.

http://www.ntxinfo.org/mentorfest/

There will be an NTMS-HSMM table demonstrating HSMM. I need help in setting up a 802.11b network, connecting it to the internet and then in explaining to visitors how it works.

I would like to have at least 2 webcams uploading pictures to the web on a realtime basis.

I need volunteers with equipment and time to man the booth.

Please respond immediately as we will need to plan our network.

Doug Kilgore KD5OUG
972-231-8539

257. RE: [ntms-hsmm] Need HSMM Help with Mentorfest

Yahoo group: DAWG-HSMM
Date: 2004-10-18 21:37:38 UTC
From: Chris Ward
Topic: 256 Message: 257

If someone has a portable tower or something high enough I can supply the Internet connetion from home I live about 4 miles from the bingo hall. Let me know what you find out.

CW

WD5CW

-----Original Message-----
From: Douglas Kilgore [mailto:douglas.kilgore@...]
Sent: Sunday, October 17, 2004 4:11 PM
To: HSMM Group
Subject: [ntms-hsmm] Need HSMM Help with Mentorfest

This coming Saturday, Oct. 23, the North Texas Section ARRL is sponsoring Mentorfest. Time is 8:00am - 3:30pm.

http://www.ntxinfo.org/mentorfest/

There will be an NTMS-HSMM table demonstrating HSMM. I need help in setting up a 802.11b network, connecting it to the internet and then in explaining to visitors how it works.

I would like to have at least 2 webcams uploading pictures to the web on a realtime basis.

I need volunteers with equipment and time to man the booth.

Please respond immediately as we will need to plan our network.

Doug Kilgore KD5OUG
972-231-8539

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<http://us.ard.yahoo.com/SIG=12987sigi/M=315388.5497957.6576270.3001176/D=groups/S=1705644089:HM/EXP=1098136949/A=2372354/R=0/SIG=12id813k2/*https:/www.orchardbank.com/hcs/hcsapplication?pf=PLApply&media=EMYHNL40F21004SS> click here

<http://us.adserver.yahoo.com/l?M=315388.5497957.6576270.3001176/D=groups/S=:HM/A=2372354/rand=548346560>

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/

* To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com
<mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
<http://docs.yahoo.com/info/terms/> Service.

[Non-text portions of this message have been removed]

258. Re: [ntms-hsmm] Need HSMM Help with Mentorfest

Yahoo group: DAWG-HSMM
Date: 2004-10-18 23:33:59 UTC
From: Douglas Kilgore
Topic: 256 Message: 258

That's an interesting thought. From your house, can you see the top of the 4 or 5 story bank building that's just accross the parking lot from Betcha Bingo?

Doug

Chris Ward wrote:
>
> If someone has a portable tower or something high enough I can supply
> the Internet connetion from home I live about 4 miles from the bingo
> hall. Let me know what you find out.
>
> CW
>
> WD5CW
>
>

259. Re: [NTMS] FW: MENTORFEST

Yahoo group: DAWG-HSMM
Date: 2004-10-20 14:41:12 UTC
From: Douglas Kilgore
Topic: 259 Message: 259

I will be setting up a table with HSMM microwave equipment. I expect to have a live internet feed brought in from a outside source. I will know for sure on Thursday afternoon.

I hope to have wireless internet coverage for the whole Mentorfest area. So plan on having a laptop computer to show off the NTMS web page.

I would hope that our two tables could be side by side near the front of the building near the windows.

Doug Kilgore KD5OUG

> "Atchison, Wes" wrote:
>
> All,
>
> Bob, WA5YWC, informed me yesterday that he will not be able to take
> part in Mentorfest on Saturday. If we have any others who can help it
> would be great. Please contact me or Joe, N5PYK, if you can help.
>
> 73,
>
> WA5TKU
>
>

260. RE: [ntms-hsmm] Need HSMM Help with Mentorfest

Yahoo group: DAWG-HSMM
Date: 2004-10-21 00:44:09 UTC
From: Chris Ward
Topic: 256 Message: 260

Not really I live just far enough from the hill that if I used a tower I could probably have line of sight.

-----Original Message-----
From: Douglas Kilgore [mailto:douglas.kilgore@...]
Sent: Monday, October 18, 2004 6:34 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Need HSMM Help with Mentorfest

That's an interesting thought. From your house, can you see the top of the 4 or 5 story bank building that's just accross the parking lot from Betcha Bingo?

Doug

Chris Ward wrote:
>
> If someone has a portable tower or something high enough I can supply
> the Internet connetion from home I live about 4 miles from the bingo
> hall. Let me know what you find out.
>
> CW
>
> WD5CW
>
>

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<http://us.ard.yahoo.com/SIG=129b56po2/M=315388.5497957.6576270.3001176/D=groups/S=1705644089:HM/EXP=1098228723/A=2372354/R=0/SIG=12id813k2/*https:/www.orchardbank.com/hcs/hcsapplication?pf=PLApply&media=EMYHNL40F21004SS> click here

<http://us.adserver.yahoo.com/l?M=315388.5497957.6576270.3001176/D=groups/S=:HM/A=2372354/rand=271416253>

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/

* To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com

<mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
<http://docs.yahoo.com/info/terms/> Service.

[Non-text portions of this message have been removed]

261. Link: Long distance bluetooth connection

Yahoo group: DAWG-HSMM
Date: 2004-10-21 03:49:53 UTC
From: J. Beadles
Topic: 261 Message: 261

http://www.wifi-toys.com/wi-fi.php?a=articles&id=21

The article on the WiFi distance record is interesting also -
http://www.wifi-toys.com/index.php

Using 2 Orinoco cards at the feed points of two 9 ft satellite
dishes, got 55 mi without amplification. This is reasonable - back
in the old days when I did microwave path design, we commonly used 10
and 12 ft dishes for 4GHz and 6GHz.

262. Re: [ntms-hsmm] Link: Long distance bluetooth connection

Yahoo group: DAWG-HSMM
Date: 2004-10-22 03:52:34 UTC
From: Ron Cole
Topic: 261 Message: 262

Old Days, Like 1999 when I used 10-14' Dishes on 2.4
Ghz for 30-40 Mile shots.

Ron
--- "J. Beadles" <jbeadles@...> wrote:

>
>
> http://www.wifi-toys.com/wi-fi.php?a=articles&id=21
>
> The article on the WiFi distance record is
> interesting also -
> http://www.wifi-toys.com/index.php
>
> Using 2 Orinoco cards at the feed points of two 9 ft
> satellite
> dishes, got 55 mi without amplification. This is
> reasonable - back
> in the old days when I did microwave path design, we
> commonly used 10
> and 12 ft dishes for 4GHz and 6GHz.
>
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>
> ---------- Yahoo! Groups Sponsor
> ----------~-->
> $9.95 domain names from Yahoo!. Register anything.
>
http://us.click.yahoo.com/J8kdrA/y20IAA/yQLSAA/5AhqlB/TM
>
----------~->
>
>
>
> Yahoo! Groups Links
>
>
> ntms-hsmm-unsubscribe@yahoogroups.com
>
>
>
>
>

>

=====
Ron

Do you Yahoo!?
Yahoo! Mail Address AutoComplete - You start. We finish.
http://promotions.yahoo.com/new_mail

263. Re: [ntms-hsmm] Link: Long distance bluetooth connection

Yahoo group: DAWG-HSMM
Date: 2004-10-22 04:41:50 UTC
From: jbeadles@pobox.com
Topic: 261 Message: 263

On 21 Oct 2004 at 20:52, Ron Cole wrote:

>
> Old Days, Like 1999 when I used 10-14' Dishes on 2.4
> Ghz for 30-40 Mile shots.

Yep, them's the good old days. :-)

Most of my stuff was done around '89 to '92. Shortly after that, the
hundreds of microwave paths my co. owned were decomm'd in favor of
fiber.

> Ron
> --- "J. Beadles" <jbeadles@...> wrote:
>
> >
> >
> > http://www.wifi-toys.com/wi-fi.php?a=articles&id=21
> >
> > The article on the WiFi distance record is
> > interesting also -
> > http://www.wifi-toys.com/index.php
> >
> > Using 2 Orinoco cards at the feed points of two 9 ft
> > satellite
> > dishes, got 55 mi without amplification. This is
> > reasonable - back
> > in the old days when I did microwave path design, we
> > commonly used 10
> > and 12 ft dishes for 4GHz and 6GHz.
> >
> >
> >
> >
> >
> > ------------------------ Yahoo! Groups Sponsor
> > ----------------------~-->
> > $9.95 domain names from Yahoo!. Register anything.
> >
> http://us.click.yahoo.com/J8kdrA/y20IAA/yQLSAA/5AhqlB/TM
> >
> --~->
> >
> >
> >
> > Yahoo! Groups Links

> >
> >
> > ntms-hsmm-unsubscribe@yahoogroups.com
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>
> =====
> Ron
>
>
>
> _____
> Do you Yahoo!?
> Yahoo! Mail Address AutoComplete - You start. We finish.
> http://promotions.yahoo.com/new_mail
>
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> Yahoo! Groups Links
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264. HSMM Internet Feed at Mentorfest

Yahoo group: DAWG-HSMM
Date: 2004-10-22 14:33:09 UTC
From: Douglas Kilgore
Topic: 264 Message: 264

We expect to have a Wireless Internet feed in Irving, TX at the NTX ARRL Mentorfest on Sat., Oct. 23. which will be open to all. In addition, we expect to have a webcam uploading realtime pictures to the internet.

Pictures will be viewable worldwide at
http://home.comcast.net/~kd5oug/mentorfest.html

All hams are invited to use the wireless connection so bring a wireless enabled laptop.

Doug Kilgore KD5OUG
High Speed Multimedia Group
North Texas Microwave Society

265. http://web.net2phone.com/partnerships/distributors/product/broadband/xj100.asp

Yahoo group: DAWG-HSMM
Date: 2004-10-28 19:13:33 UTC
From: kd5inm
Topic: 265 Message: 265

Net2Phone - Broadband Products - VoiceLine XJ100 Wi-Fi Handset What are the possibilities of this for Ham applications on 802.11b/g? for instance if we had our own ham network and use this to call from one emergency center to other emergency centers using a 802.11b setup. Make it work only on a closed network, not open into internet or through phone lines.

john kd5inm

Cable Telephony

Corporate / Enterprise
Calling Card Programs
Internet Caf?s/Calling Centers
VoIP Carrier Services
VoIP Devices
Broadband Telephony

Distributors
VoIP Over Wireless IP Networks
Carriers
Affiliate Program

Broadband Phone Service
PC2Phone / PC2Fax
Calling Cards

:: Home > Partnerships > Distributors > Product Information > Broadband Products > VoiceLine XJ100 Wi-Fi Handset

Product Information

Broadband Products

VoiceLine XJ100 Wi-Fi Handset

Max IP10

2-Port Gateway

Max 410

Max 420

Max 430

Max 8

Max 8 Plus

Max 8/16

Max T1/E1

Max PVN

Max ABS

Max Information & Support

VoiceLine XJ100 Wi-Fi Handset

The XJ100 enables users to place and receive low-cost VoIP calls over a Wi-Fi network.

Suggested Retail Price: $175
(does not include cost of shipping from the U.S. and any tariffs, duties, or import taxes)

The VoiceLine XJ100 Wi-Fi Handset:

a.. Allows users in corporate, residential, and public Wi-Fi network environments to benefit from VoIP calling
b.. Complies with both the 802.11b and 802.11g standards for Wi-Fi LANs
c.. Supports value-added features such as VoiceMail, Caller ID and call forwarding
Opportunities for Savings
The XJ100 Wi-Fi Handset enables users to place and receive low-cost phone calls over Wi-Fi networks. Users no longer need to access a wired network to benefit from VoIP calling. Callers can save in any number of Wi-Fi network settings, including:

? Corporate Environments: Larger businesses are increasingly using Wi-Fi networks to extend their wired networks to off-site/telecommuting employees in home and satellite offices. With this solution, corporations can reduce the communication costs associated with establishing remote offices.

? Small Businesses: Many small businesses rely on the flexibility of Wi-Fi networks to meet their ever-changing infrastructure requirements. Net2Phone enables these companies to utilize their Wi-Fi networks to save on communication costs.

? Residential Settings: Users can now utilize their home Wi-Fi networks to save on their telephone calls.

? Free Public Hotspots: Callers can take advantage of the rapidly growing number of free public hotspots to make and receive low-cost calls when they are away from their home or office. Travelers can save by making calls from airports and hotels around the world.

? Campus Environments: Students can make and receive calls throughout a Wi-Fi enabled campus.

? Municipalities: Public officials in locations with Wi-Fi public safety networks can make and receive calls from all over town.

Standards-Based Compatibility
With the XJ100, calls can be made through Wi-Fi gateways and access points that comply with either the 802.11b or 802.11g standard. Both standards apply to Wi-Fi LANs operating in the

2.4 GHz spectrum.

Feature-Rich Calling Solution
The XJ100 utilizes Net2Phone's VoiceLine service, enabling both inbound and outbound calling and allowing users to choose from a U.S. local, U.S. toll-free, or U.K. toll-free telephone number, no matter where they reside globally.

The XJ100 supports a wide range of value-added features, including:

a.. VoiceMail
b.. Call blocking
c.. Caller ID
d.. Call return
e.. Call forwarding
f.. English or Spanish language selection
Product Specifications

a.. Dimensions: 5.5" (H) x 1.9" (W) x 0.8" (D)
b.. Weight: Approximately 111g
c.. Battery Life: 3.2 hour talk time, 21-23 hour standby
d.. Notification: Ringer/Vibration
e.. Ports: Earphone jack

System Requirements

a.. A broadband Internet connection (such as DSL, cable, or T1) or full 56K dialup (with default bandwidth settings)
b.. Access to an 802.11b or 802.11g wireless network
c.. Most broadband Internet connections use dynamic IP addressing (DHCP), but if your WAN uses static IP addresses, you will also need the following information for the XJ100 Wi-Fi Handset (available from your broadband service provider or LAN administrator):
IP address; Netmask; Gateway address; DNS server address

*Price is quoted in U.S. dollars and does not include items such as shipping, tariffs, duties, and import taxes. Suggested retail pricing should be used as a guideline and can vary by market. Net2Phone reserves the right to refer you to a local distributor to purchase our hardware products and calling time.

Contact Us

To receive additional information about Net2Phone's Distributor program, click here.

If you would like to purchase the XJ100, please e-mail us with your contact information.

Product Information
Download Product Sheet
(English)
Download User Guide

Related Products
VoiceLine Broadband Telephony

Cable Telephony - Solutions - Partnerships - Consumer Services - My Account Investor Relations - Privacy Policy - Terms of Use

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[Non-text portions of this message have been removed]

266. Re: http://web.net2phone.com/partnerships/distributors/product/broadband/xj100.a

Yahoo group: DAWG-HSMM
Date: 2004-10-28 23:14:07 UTC
From: Rick Wilson
Topic: 265 Message: 266

--- In ntms-hsmm@yahoogroups.com, "kd5inm" <kd5inm@t...> wrote:
> Net2Phone - Broadband Products - VoiceLine XJ100 Wi-Fi Handset What are the possibilities of this for Ham applications on 802.11b/g? for instance if we had our own ham network and use this to call from one emergency center to other emergency centers using a 802.11b setup. Make it work only on a closed network, not open into internet or through phone lines.
>
Cool phone. It seems to be the same unit sold by ZyXEL as the Prestige 2000W for $250. Net3Phone's price seems quite reasonable at $175. A full teardown and firmware info it a the Seattlewireless.net website. URL:

http://seattlewireless.net/index.cgi/ZyXELPrestige2000W

Supports ad-hoc networking and can do IP to IP calling without any central SIP server. Of course to use this mode DHCP would not be practical and IP addresses would need to be static otherwise every time the phone is powered up a new address would be issued.

Although not stated in the specs, I assume that each device transmits it's MAC so filtering could be put in place to prevent "rouge" devices from accessing the network.

Secure, reilable comms and full duplex as well. Not bad at all.

Rick
W5TUX

267. Updated HSMM page with pics, presentation

Yahoo group: DAWG-HSMM
Date: 2004-11-02 04:39:43 UTC
From: J. Beadles
Topic: 267 Message: 267

All,

I've updated my HSMM page with a centralized list of all of our HSMM presentations and pics. This includes a new set of pics of KC5QHHs' portable AP, bridge and mesh nodes.

http://www.n5oom.org/hsmm/

268. Stolen Blk Chev Impala KD5WIH

Yahoo group: DAWG-HSMM
Date: 2004-11-03 16:51:42 UTC
From: KD5WIH
Topic: 268 Message: 268

Sometime between 11PM last night and 9AM this morning, my 1996 Black Chevrolet Impala was stolen from my home in SW Richardson. It is a destintive vehicle and I hope someone spots it before it gets to the chop shop.

1996 Chevrolet Impala
Black 4 door
ATAS 120 on left side on trunk lid- VHF/ UHF antenna on right side.
Texas LP KD5WIH (note this plate # is also on my old van)
Sits higher in the back than front.
FT-857 control head monted on console

If you see it PLEASE call the police!

Thanks and 73,
Keaven
KD5WIH

_____
Do you Yahoo!?
Check out the new Yahoo! Front Page.
www.yahoo.com

269. 802.11 Demo at NTMS Meeting

Yahoo group: DAWG-HSMM
Date: 2004-11-06 18:44:49 UTC
From: Bob and Debbie Kmak
Topic: 269 Message: 269

Guys,

We are planning to do an 802.11 demo at next Saturday's (Nov. 13) North Texas Microwave Society meeting. It will be in Ft. Worth, at the Lockheed Martin Recreation Center.

Does anybody have any ideas for an effective demo, outside of the usual NetMeeting hookup? We will be in a first-floor meeting room, so going outside for the demo should be pretty easy, if that would help. We've never had our meeting at this location before, so I don't know what might be available in the area (like hotspots). If any of you would like to participate, your help would be very appreciated.

Bob Kmak
K5WO
NTMS Vice President

270. Re: 802.11 Demo at NTMS Meeting

Yahoo group: DAWG-HSMM
Date: 2004-11-10 19:39:30 UTC
From: J. Beadles
Topic: 269 Message: 270

--- In ntms-hsmm@yahoogroups.com, "Bob and Debbie Kmak" <bdkmak@c...>
wrote:
> Guys,
>
> We are planning to do an 802.11 demo at next Saturday's (Nov. 13)
North
> Texas Microwave Society meeting. It will be in Ft. Worth, at the
Lockheed
> Martin Recreation Center.
>
> Does anybody have any ideas for an effective demo, outside of the
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> NetMeeting hookup? We will be in a first-floor meeting room, so
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> outside for the demo should be pretty easy, if that would help.
We've never
> had our meeting at this location before, so I don't know what might
be
> available in the area (like hotspots). If any of you would like to
> participate, your help would be very appreciated.

Bob,

Looks like I, Doug KD5OUG and Ken KD5ZXG are going to try to put
something together, though it likely won't be much more than a bridge
link, an access point link and a web cam or something. If there is a
local connection we can try to bridge to it, but won't count on it.

Is anybody else interested in helping out? Strongly recommended that
parties interested in HSMM attend.

271. Proposed HSMM contest

Yahoo group: DAWG-HSMM
Date: 2004-11-10 19:50:46 UTC
From: J. Beadles
Topic: 271 Message: 271

All,

Whilst driving back from an HSMM presentation to the McKinney club last night, KD5OUG, KD5ZXG and I were discussing ways to build up some to build up some activity here in the North Texas area. One thing we considered was setting up one or more contests that would require participants to connect to the NT5NT access point here in Richardson.

To do this, we will need to rehabilitate the AP that is currently on the tower, changing out the AP to a WRT-54G, installing a high gain H-pol slotted waveguide omni and finding an internet feed. We are soliciting volunteers to help us build and configure this equipment.

We are thinking the the contest would require users to access a particular web page through the ap, possibly input their GPS coordinates and obtain a unique serial number as proof of completion. Farthest distance would win. Another idea would be a would be a "worked all zip codes" contest.

We are soliciting comments on different types of contests, the win conditions and ideas for conditions that could be used as score modifiers.

272. Re: [ntms-hsmm] Re: 802.11 Demo at NTMS Meeting

Yahoo group: DAWG-HSMM
Date: 2004-11-11 01:04:03 UTC
From: Bob and Debbie Kmak
Topic: 269 Message: 272

John,

Sounds good. I've asked my contact with the LMRA, Doug Howard, about possible internet connectivity at the Rec Center. He said there was nothing available. But he added that it might be possible to connect to the apartments 'across the river' to get an internet connection. He added that that's what they do at Field Day. If you like I'll pursue this further with him and try to find out if it's feasible (and legal :-).

Bob

----- Original Message -----
From: "J. Beadles" <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Wednesday, November 10, 2004 1:39 PM
Subject: [ntms-hsmm] Re: 802.11 Demo at NTMS Meeting

>
>
> --- In ntms-hsmm@yahoogroups.com, "Bob and Debbie Kmak" <bdkmak@c...>
> wrote:
> > Guys,
> >
> > We are planning to do an 802.11 demo at next Saturday's (Nov. 13)
> North
> > Texas Microwave Society meeting. It will be in Ft. Worth, at the
> Lockheed
> > Martin Recreation Center.
> >
> > Does anybody have any ideas for an effective demo, outside of the
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> going
> > outside for the demo should be pretty easy, if that would help.
> We've never
> > had our meeting at this location before, so I don't know what might
> be
> > available in the area (like hotspots). If any of you would like to
> > participate, your help would be very appreciated.
>
> Bob,
>
> Looks like I, Doug KD5OUG and Ken KD5ZXG are going to try to put
> something together, though it likely won't be much more than a bridge
> link, an access point link and a web cam or something. If there is a
> local connection we can try to bridge to it, but won't count on it.

>
> Is anybody else interested in helping out? Strongly recommended that
> parties interested in HSMM attend.
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>
> Yahoo! Groups Links
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273. Items of Ham Interest at Harbor Freight Sale

Yahoo group: DAWG-HSMM
Date: 2004-11-11 07:03:26 UTC
From: Douglas Kilgore
Topic: 273 Message: 273

I received in the mail a Harbor Freight sales brochure for a sale that ends Dec. 6.

Two items of interest for hams:

1. Suction Cup - 4-1/2 inch diameter. $2.49 This was shown in QST article for mounting antenna on glass.

2. 12 volt Jump Start system and Power Supply. $39.99
17 amp hour battery, spot light, meter, auto shutoff and jumper cables

Harbor Freight stores:

1704 E Beltline, Richardson
1735 N Story Rd, Irving
5268 Trail Lake Dr, Ft. Worth

Merry Christmas

Doug Kilgore KD5OUG

274. North Texas Microwave Society Meeting This Saturday

Yahoo group: DAWG-HSMM
Date: 2004-11-12 02:25:13 UTC
From: Bob and Debbie Kmak
Topic: 274 Message: 274

This month's meeting will be at the Lockheed-Martin Recreation Center in Ft. Worth Texas.
We will be guests of the Lockheed-Martin Radio Association.

The meeting will be held in the clubhouse, Meeting Room 1 (Liberator). As you drive up to the grounds, you will have to tell the guard that you are there for the radio club meeting. He might subject you to a quick CW test, but I hear he's pretty lenient (Just Kidding!) See the October VP's letter for details at http://www.ntms.org/ click on October VP .

The informal part of the meeting will start a 12 noon.

Then at 1 PM, the official festivities will begin:

1. Discussion of future direction of NTMS; including what to do about lagging activity, fading newsletter. Bring your best ideas.

2. MUD 2004 Report, by Bob Gormley, WA5YWC.

3. Show n' Tell , starting with the recent 10 GHz & Up contest
a. Al Ward, W5LUA, will give his observations on the contest.
b. WA5YWC, K5WO, NM5M and others will tell of their exploits during the contest.
c. Open Mike session for anyone who wants to tell of interesting ham radio activities or purchases.
Most of us buy some ham radio junk through the year; if nothing else just say a few words about the neat stuff you've added to your collection.

4. Joe, N5PYK will give a demo of his new software program, AvTrakMap

5. 802.11 Demo, by John, N500m, Doug, KD5OUG, and Ken KD5ZXG.

6. If time permits, we will adjourn to the LMRA club station and check it out.

See you Saturday!

Bob Kmak K5WO
NTMS VP

275. Re: Proposed HSMM contest

Yahoo group: DAWG-HSMM
Date: 2004-11-16 04:27:59 UTC
From: J. Beadles
Topic: 271 Message: 275

So is nobody interested in doing this?

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
> All,
>
> Whilst driving back from an HSMM presentation to the McKinney club
> last night, KD5OUG, KD5ZXG and I were discussing ways to build up
> some to build up some activity here in the North Texas area. One
> thing we considered was setting up one or more contests that would
> require participants to connect to the NT5NT access point here in
> Richardson.
>
> To do this, we will need to rehabilitate the AP that is currently
on
> the tower, changing out the AP to a WRT-54G, installing a high gain
H-
> pol slotted waveguide omni and finding an internet feed. We are
> soliciting volunteers to help us build and configure this equipment.
>
> We are thinking the the contest would require users to access a
> particular web page through the ap, possibly input their GPS
> coordinates and obtain a unique serial number as proof of
completion.
> Farthest distance would win. Another idea would be a would be
> a "worked all zip codes" contest.
>
> We are soliciting comments on different types of contests, the win
> conditions and ideas for conditions that could be used as score
> modifiers.

276. Re: [ntms-hsmm] Re: Proposed HSMM contest

Yahoo group: DAWG-HSMM
Date: 2004-11-16 04:38:59 UTC
From: Paul Sullivan
Topic: 271 Message: 276

I think its interesting. Where is the access point in Richardson?

Paul / KD5TKO

On Monday 15 November 2004 10:27 pm, J. Beadles wrote:
> So is nobody interested in doing this?
>
> --- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
> > All,
> >
> > Whilst driving back from an HSMM presentation to the McKinney club
> > last night, KD5OUG, KD5ZXG and I were discussing ways to build up
> > some to build up some activity here in the North Texas area. One
> > thing we considered was setting up one or more contests that would
> > require participants to connect to the NT5NT access point here in
> > Richardson.
> >
> > To do this, we will need to rehabilitate the AP that is currently
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> on
>
> > the tower, changing out the AP to a WRT-54G, installing a high gain
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> H-
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> > pol slotted waveguide omni and finding an internet feed. We are
> > soliciting volunteers to help us build and configure this equipment.
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> > We are thinking the the contest would require users to access a
> > particular web page through the ap, possibly input their GPS
> > coordinates and obtain a unique serial number as proof of
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> > Farthest distance would win. Another idea would be a would be
> > a "worked all zip codes" contest.
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> > We are soliciting comments on different types of contests, the win
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> > modifiers.
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> http://groups.yahoo.com/group/ntms-hsmm/
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> ntms-hsmm-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

277. Re: [ntms-hsmm] Re: Proposed HSMM contest

Yahoo group: DAWG-HSMM
Date: 2004-11-16 14:59:14 UTC
From: Frank Krizan
Topic: 271 Message: 277

I don't believe the time is right for a "contest" that is associated with a "fixed" AP. Traditional "challenge" standings, such as distance, data rate, path quality (distance x data rate), rovering setup/teardown times, rovering grids worked, etc. might be better. In this way, Hams who don't live in the immediate Richardson area could participate and not be limited by an exclusive AP.

The "challenges" might be associated with VHF/UHF contests. Many of us are interested in HSMM but don't have the equipment or know-how. By tagging along with a test or rover, we could learn more.

Some guidelines would need to be developed to confirm the results and could be published on the NTMS site. An award in the form of a certificate, plaque or cup could be presented to those who break standing records. I would suggest the Standings Coordinator issue a certificate and allow the winner to pay for a nice plaque or trophy with the certificate image engraved or screened onto the plaque, etc. That would keep the costs down for the NTMS and allow bragging rights for the individual.

Well, that's my 2-bits (a little digital talk),

73, Frank KR1ZAN
Garland, TX

----- Original Message -----
From: J. Beadles
To: ntms-hsmm@yahoogroups.com
Sent: Monday, November 15, 2004 10:27 PM
Subject: [ntms-hsmm] Re: Proposed HSMM contest

So is nobody interested in doing this?

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
> All,
>
> Whilst driving back from an HSMM presentation to the McKinney club
> last night, KD5OUG, KD5ZXG and I were discussing ways to build up
> some to build up some activity here in the North Texas area. One
> thing we considered was setting up one or more contests that would
> require participants to connect to the NT5NT access point here in
> Richardson.
>
> To do this, we will need to rehabilitate the AP that is currently
on
> the tower, changing out the AP to a WRT-54G, installing a high gain
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> pol slotted waveguide omni and finding an internet feed. We are
> soliciting volunteers to help us build and configure this equipment.

>
> We are thinking the the contest would require users to access a
> particular web page through the ap, possibly input their GPS
> coordinates and obtain a unique serial number as proof of
completion.
> Farthest distance would win. Another idea would be a would be
> a "worked all zip codes" contest.
>
> We are soliciting comments on different types of contests, the win
> conditions and ideas for conditions that could be used as score
> modifiers.

Yahoo! Groups Links

[Non-text portions of this message have been removed]

278. Request for advice/help in setting up a link

Yahoo group: DAWG-HSMM
Date: 2004-11-16 15:03:26 UTC
From: Frank Krizan
Topic: 278 Message: 278

Howdy,

A friend of mine in the Houston area desires to setup an 802.11 link between his house and his son. It's about a 5 mile path. What would he need at both ends to pull this off?

He's looked around some of the HSMM sites and found that a lot of people are using the LinkSys WRT-54G. What would he use for coax? An antenna?

Any thoughts on configuring the equipment? ... namely, LinkSys setup.

Thanks and 73, Frank KR1ZAN

[Non-text portions of this message have been removed]

279. Re: [ntms-hsmm] Re: Proposed HSMM contest

Yahoo group: DAWG-HSMM
Date: 2004-11-16 19:09:47 UTC
From: Tom Bresee
Topic: 271 Message: 279

I am interested in helping with the configuration / set up
work you need, if it is deemed yall will pursue this....

Tom Bresee

> On Monday 15 November 2004 10:27 pm, J. Beadles wrote:
> > So is nobody interested in doing this?
> >
> > --- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
> > > All,
> > >
> > > Whilst driving back from an HSMM presentation to the McKinney club
> > > last night, KD5OUG, KD5ZXG and I were discussing ways to build up
> > > some to build up some activity here in the North Texas area.? One
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> > > require participants to connect to the NT5NT access point here in
> > > Richardson.
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> > Yahoo! Groups Links
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> > To visit your group on the web, go to:
> > http://groups.yahoo.com/group/ntms-hsmm/
> > ?
> > To unsubscribe from this group, send an email to:
> > ntms-hsmm-unsubscribe@yahoogroups.com
> > ?
> > Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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http://my.yahoo.com

280. Re: [ntms-hsmm] Re: Proposed HSMM contest

Yahoo group: DAWG-HSMM
Date: 2004-11-17 01:25:17 UTC
From: Bob and Debbie Kmak
Topic: 271 Message: 280

John,

I'd be interested in a competition of some sort. I would suggest a long time period, like 2 weeks, to give everybody a chance to get out and try their luck. Also, I'd suggest using 6 digit grid squares as multipliers (if it's reasonable to assume that everybody will have a GPS) , and maybe have county and zipcode multipliers if you want to get crazy. Each connection could be awarded points based on distance - there a free programs available that will calculate distance between grid squares. Participants could make as many connections as they want as long as each connection is made from a unique location or gridsquare (so you couldn't sit in one place and make a zillion connects for points).
Final score would be total distance points times multipliers.

Maybe the web app could calculate the distances. Also, perhaps the web app could also display a running scores tally.

73,

Bob

----- Original Message -----
From: "J. Beadles" <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Monday, November 15, 2004 10:27 PM
Subject: [ntms-hsmm] Re: Proposed HSMM contest

>
>
> So is nobody interested in doing this?
>
> --- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
> >
> > All,
> >
> > Whilst driving back from an HSMM presentation to the McKinney club
> > last night, KD5OUG, KD5ZXG and I were discussing ways to build up
> > some to build up some activity here in the North Texas area. One
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> > pol slotted waveguide omni and finding an internet feed. We are
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> > We are thinking the the contest would require users to access a
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> > Farthest distance would win. Another idea would be a would be
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> > We are soliciting comments on different types of contests, the win
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> > modifiers.
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281. Re: Proposed HSMM contest

Yahoo group: DAWG-HSMM
Date: 2004-11-17 23:57:18 UTC
From: J. Beadles
Topic: 271 Message: 281

Paul,

The AP is on the Nortel bld in the NW corner of Campbell and 75, 16
stories (abt 260 ft) in the air. Pics here:

http://www.n5oom.org/hsmm/photos/nt5nt_ap/

--- In ntms-hsmm@yahoogroups.
om, Paul Sullivan <paulsullivan33@c...> wrote:
> I think its interesting. Where is the access point in Richardson?
>
> Paul / KD5TKO
>
>
> On Monday 15 November 2004 10:27 pm, J. Beadles wrote:
> > So is nobody interested in doing this?
> >
> > --- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...>
wrote:
> > > All,
> > >
> > > Whilst driving back from an HSMM presentation to the McKinney
club
> > > last night, KD5OUG, KD5ZXG and I were discussing ways to build
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> > > some to build up some activity here in the North Texas area.
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> > > thing we considered was setting up one or more contests that
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> > > require participants to connect to the NT5NT access point here
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> > > Richardson.
> > >
> > > To do this, we will need to rehabilitate the AP that is
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> > > soliciting volunteers to help us build and configure this

equipment.
> > >
> > > We are thinking the the contest would require users to access a
> > > particular web page through the ap, possibly input their GPS
> > > coordinates and obtain a unique serial number as proof of
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> >
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> > > a "worked all zip codes" contest.
> > >
> > > We are soliciting comments on different types of contests, the
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> > Yahoo! Groups Links
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> > To visit your group on the web, go to:
> > http://groups.yahoo.com/group/ntms-hsmm/
> >
> > To unsubscribe from this group, send an email to:
> > ntms-hsmm-unsubscribe@yahoogroups.com
> >
> > Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

282. Re: Proposed HSMM contest

Yahoo group: DAWG-HSMM
Date: 2004-11-18 00:01:04 UTC
From: J. Beadles
Topic: 271 Message: 282

--- In ntms-hsmm@yahoogroups.com, "Frank Krizan" <frank@k...> wrote:
> I don't believe the time is right for a "contest" that is
associated with a "fixed" AP. Traditional "challenge" standings,
such as distance, data rate, path quality (distance x data rate),
rovering setup/teardown times, rovering grids worked, etc. might be
better. In this way, Hams who don't live in the immediate Richardson
area could participate and not be limited by an exclusive AP.
>
> The "challenges" might be associated with VHF/UHF contests. Many
of us are interested in HSMM but don't have the equipment or know-
how. By tagging along with a test or rover, we could learn more.
>
> Some guidelines would need to be developed to confirm the results
and could be published on the NTMS site. An award in the form of a
certificate, plaque or cup could be presented to those who break
standing records. I would suggest the Standings Coordinator issue a
certificate and allow the winner to pay for a nice plaque or trophy
with the certificate image engraved or screened onto the plaque,
etc. That would keep the costs down for the NTMS and allow bragging
rights for the individual.

I can certainly see this in the future, but for right now the goal we
are thinking of is just to get the local area org mobilized, hence
the focus on the NT5NT repeater. However, there is nothing
preventing us from expanding contest idea.

283. Re: Request for advice/help in setting up a link

Yahoo group: DAWG-HSMM
Date: 2004-11-18 00:06:32 UTC
From: J. Beadles
Topic: 278 Message: 283

--- In ntms-hsmm@yahoogroups.com, "Frank Krizan" <frank@k...> wrote:
> Howdy,
>
> A friend of mine in the Houston area desires to setup an 802.11 link between his house and his son. It's about a 5 mile path. What would he need at both ends to pull this off?
>
> He's looked around some of the HSMM sites and found that a lot of people are using the LinkSys WRT-54G. What would he use for coax? An antenna?
>
> Any thoughts on configuring the equipment? ... namely, LinkSys setup.

Frank,

Assuming that they are both licensed and running in part 97, look at the KC5QHH pics on http://www.n5oom.org/hsmm/. The radios need to be up at the antenna. Cable pigtails can come from FAB-CORP, maybe 14dB antennas at each end, but remember the higher gain antennas, the narrower the main beam and so the less environmental interference they will see. They will want to run ethernet cable to the radio, and just run power over ethernet to the radio. The relevant manufacturer links are on my web page also.

284. [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

Yahoo group: DAWG-HSMM
Date: 2004-11-19 17:27:43 UTC
From: Douglas Kilgore
Topic: 284 Message: 284

I'm forwarding this message from the Winlink2000 Emergency Communications reflector because of the mention of an 802.11b link in the last paragraph. Winlink2000 with TelPac is what the ARRL is pushing for digital communications. This message is one of a long thread on the subject of priorities and thruput.

It describes where HSMM might fit into the picture.

If you want to know more, go to:
http://groups.yahoo.com/group/wl2kemcomm/

Doug Kilgore KD5OUG

[Non-text portions of this message have been removed]

285. Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

Yahoo group: DAWG-HSMM
Date: 2004-11-19 17:35:04 UTC
From: dubose@texas.net
Topic: 284 Message: 285

Interestingly enough, when I mentioned the capability of TelPac to a couple of emergency managers last weekend, they both said NOW WAY are we going to allow our units in the field have direct access to the Internet...we want all messages going through our EOC before going up-channel.

Now as far as ARES having that capability...its a good idea but I'm seeing that local goverment EOCs (and probably the state EOC) don't want TelPac capability.

Walt/K5YFW

Quoting Douglas Kilgore <douglas.kilgore@...>:
>
> I'm forwarding this message from the Winlink2000 Emergency
>
> Communications reflector because of the mention of an 802.11b link in
>
> the last paragraph. Winlink2000 with TelPac is what the ARRL is pushing
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> for digital communications. This message is one of a long thread on the
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> subject of priorities and thruput.
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> It describes where HSMM might fit into the picture.
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> If you want to know more, go to:
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> http://groups.yahoo.com/group/wl2kemcomm/
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> Doug Kilgore KD5OUG
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> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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286. Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

Yahoo group: DAWG-HSMM
Date: 2004-11-19 17:47:16 UTC
From: Frank Krizan
Topic: 284 Message: 286

Harris County (Houston, TX) is implementing WinLink 2000 for EmComm. Collin County (Plano, TX) is investigating it.

Walt, I've heard similar things from emergency personnel about Ham Radio. "We don't need some amateurs when we can do everything using cell phones."

de Frank/KR1ZAN
Garland, TX

----- Original Message -----
From: dubose@...
To: ntms-hsmm@yahoogroups.com
Sent: Friday, November 19, 2004 11:35 AM
Subject: Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

Interestingly enough, when I mentioned the capability of TelPac to a couple of emergency managers last weekend, they both said NOW WAY are we going to allow our units in the field have direct access to the Internet...we want all messages going through our EOC before going up-channel.

Now as far as ARES having that capability...its a good idea but I'm seeing that local goverment EOCs (and probably the state EOC) don't want TelPac capability.

Walt/K5YFW

Quoting Douglas Kilgore <douglas.kilgore@...>:
>
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> Communications reflector because of the mention of an 802.11b link in
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> http://groups.yahoo.com/group/wl2kemcomm/

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> Doug Kilgore KD5OUG
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> [Non-text portions of this message have been removed]
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> To visit your group on the web, go to:
> http://groups.yahoo.com/group/ntms-hsmm/
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> To unsubscribe from this group, send an email to:
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Yahoo! Groups Links

[Non-text portions of this message have been removed]

287. Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

Yahoo group: DAWG-HSMM
Date: 2004-11-19 19:31:50 UTC
From: dubose@texas.net
Topic: 284 Message: 287

Of course understand the emergency manager's position...if someone in the field sends a request to the state for some sort of assistance and the local emergency manager already has the situation under control, this "waste" effort and might obligate the local emergency manager/city to spend funds that they did not need.

An close example of this was a South Texas ham who indicated he was sending a request from the country emergency manager to the state for highway barricades. The state started contacting various close counties to obtain the barriers and dispatched an 18 wheeler to the various counties with access barriers to carry them to the south Texas county. They weren't needed. The message from the county emergency manager was to the local city government and never ment to be sent via ham radio...the ham took it upon himself to send the message.

So to prevent "un-authorized" communications, many larger EOCs prefer to have all communications authenticated by the regulating EOC manager/manager's staff prior to forwarding a message up.

As one who has sat in an emergency operations center as a controller, I have to agree...I want all up channel messages to filter through my office and reviewed by me or my staff.

However, once again, if an ham wants to run TelPac for the benefit of local ARES stations and the customers they represent and the customer needs that service, then that is another situation.

I just believe that operating a TelPac station is not necessarly an EOC function. If however the EOC looses Internet/E-Mail capability, then the use of an ARES provided TelPac station is of benefit.

Yes those who say ham radio isn't needed haven't much emergency communications experience. During the recent hurricanes, the Texas Baptist Men and their feeding kitchens, chanisaw crews and clean up crews found that daily cellphone and even telephone contact was difficult and non-existant even several days after the passing of the storm. They relied on HF to keep in contact between their "deployed" locations and "home base" back here in San Antonio.

Walt/K5YFW

Quoting Frank Krizan <frank@...>:
>
> Harris County (Houston, TX) is implementing WinLink 2000 for EmComm.
> Collin County (Plano, TX) is investigating it.
>
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>

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> "We don't need some amateurs when we can do everything using cell phones."
>
>
>
> de Frank/KR1ZAN
>
> Garland, TX
>
>
>
> ----- Original Message -----
>
> From: dubose@...
>
> To: ntms-hsmm@yahoogroups.com
>
> Sent: Friday, November 19, 2004 11:35 AM
>
> Subject: Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority &
> Sequence]
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> Interestingly enough, when I mentioned the capability of TelPac to a
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> Walt/K5YFW

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> Quoting Douglas Kilgore <douglas.kilgore@...>:
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> > Doug Kilgore KD5OUG
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> > To visit your group on the web, go to:
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> > http://groups.yahoo.com/group/ntms-hsmm/
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> > To unsubscribe from this group, send an email to:
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> > ntms-hsmm-unsubscribe@yahoogroups.com
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288. Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

Yahoo group: DAWG-HSMM
Date: 2004-11-19 21:40:51 UTC
From: Ron Cole
Topic: 284 Message: 288

Another Emergency manager that does not understand
emergency communications systems.
The last thing you want to do is depend on a Cell
Phone in a Disaster Situation.
Cell Phone systems suffer from overloaded and
Congested Systems, A dependency on Phone Lines to the
cell site, as well as Power outages that can take the
site off the air, many Cell Sites don?t have long tern
backup power, and you have a system the simply cannot
be depended on in an emergency.

As for WinLink 2000 I don?t care for any technology
that relies on special hardware and other Unreliable
Technologies as this system does. If all goes well
this system will work but with only one supplier of
expensive equipment I?m not impressed. I wish more
thought was put into this system before making a
decision on the technologies being used?

Ron
N5HYH

--- Frank Krizan <frank@...> wrote:

>
> Harris County (Houston, TX) is implementing WinLink
> 2000 for EmComm. Collin County (Plano, TX) is
> investigating it.
>
> Walt, I've heard similar things from emergency
> personnel about Ham Radio. "We don't need some
> amateurs when we can do everything using cell
> phones."
>
> de Frank/KR1ZAN
> Garland, TX
>
> ----- Original Message -----
> From: dubose@...
> To: ntms-hsmm@yahoogroups.com
> Sent: Friday, November 19, 2004 11:35 AM
> Subject: Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re:
> Message Priority & Sequence]
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>

> Interestingly enough, when I mentioned the
> capability of TelPac to a couple of
> emergency managers last weekend, they both said
> NOW WAY are we going to allow
> our units in the field have direct access to the
> Internet...we want all
> messages going through our EOC before going
> up-channel.
>
> Now as far as ARES having that capability...its a
> good idea but I'm seeing
> that local goverment EOCs (and probably the state
> EOC) don't want TelPac
> capability.
>
> Walt/K5YFW
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>
> Quoting Douglas Kilgore
> <douglas.kilgore@...>:
> >
> > I'm forwarding this message from the Winlink2000
> Emergency
> >
> > Communications reflector because of the mention
> of an 802.11b link in
> >
> > the last paragraph. Winlink2000 with TelPac is
> what the ARRL is pushing
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> > for digital communications. This message is one
> of a long thread on the
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> > subject of priorities and thruput.
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> >
> > It describes where HSMM might fit into the
> picture.
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> > If you want to know more, go to:
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> > http://groups.yahoo.com/group/wl2kemcomm/
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> > Doug Kilgore KD5OUG
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> > To visit your group on the web, go to:
> > http://groups.yahoo.com/group/ntms-hsmm/
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> $9.95 domain names from Yahoo!. Register anything.
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Ron

Do you Yahoo!?
The all-new My Yahoo! - Get yours free!
http://my.yahoo.com

289. Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

Yahoo group: DAWG-HSMM
Date: 2004-11-19 22:02:46 UTC
From: Frank Krizan
Topic: 284 Message: 289

For an excellent presentation on Winlink 2000 and associated sub-systems, given by Jon Brown, WB5KSD, to the Telecom Corridor Council of Clubs on November 1, 2004, link to http://www.qsl.net/w5vv Select the article in the table to the left.

HF is only one part of the Winlink system. VHF and UHF are a vital part and would most likely be used to provide access between an EOC or emergency center and an access point linked to the Winlink system via an Internet connection. The typical "operator terminal" is a laptop running Airmail software connected via a serial port to a TNC and 2m or 70cm radio. The access point is similar, but, the AP computer is further connected to the Internet. Yes, in really tough cases, the link could be via the HF path. Other links could be via an 802.11 path or portable satellite internet.

de KR1ZAN

----- Original Message -----
From: Ron Cole
To: ntms-hsmm@yahoogroups.com
Sent: Friday, November 19, 2004 3:40 PM
Subject: Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

Another Emergency manager that does not understand
emergency communications systems.
The last thing you want to do is depend on a Cell
Phone in a Disaster Situation.
Cell Phone systems suffer from overloaded and
Congested Systems, A dependency on Phone Lines to the
cell site, as well as Power outages that can take the
site off the air, many Cell Sites don't have long tern
backup power, and you have a system the simply cannot
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Technologies as this system does. If all goes well
this system will work but with only one supplier of
expensive equipment I'm not impressed. I wish more
thought was put into this system before making a
decision on the technologies being used.

Ron
N5HYH

--- Frank Krizan <frank@...> wrote:

>
> Harris County (Houston, TX) is implementing WinLink
> 2000 for EmComm. Collin County (Plano, TX) is

> investigating it.
>
> Walt, I've heard similar things from emergency
> personnel about Ham Radio. "We don't need some
> amateurs when we can do everything using cell
> phones."
>
> de Frank/KR1ZAN
> Garland, TX
>
> ----- Original Message -----
> From: dubose@...
> To: ntms-hsmm@yahoogroups.com
> Sent: Friday, November 19, 2004 11:35 AM
> Subject: Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re:
> Message Priority & Sequence]
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>
> Interestingly enough, when I mentioned the
> capability of TelPac to a couple of
> emergency managers last weekend, they both said
> NOW WAY are we going to allow
> our units in the field have direct access to the
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> Now as far as ARES having that capability...its a
> good idea but I'm seeing
> that local goverment EOCs (and probably the state
> EOC) don't want TelPac
> capability.
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> Quoting Douglas Kilgore
> <douglas.kilgore@...>:
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> > I'm forwarding this message from the Winlink2000
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> > Communications reflector because of the mention
> of an 802.11b link in
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> > the last paragraph. Winlink2000 with TelPac is
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> > for digital communications. This message is one

> of a long thread on the
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> > subject of priorities and thruput.
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> > It describes where HSMM might fit into the
> picture.
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> > If you want to know more, go to:
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> > http://groups.yahoo.com/group/wl2kemcomm/
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> > Doug Kilgore KD5OUG
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> > To visit your group on the web, go to:
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> ---------- Yahoo! Groups Sponsor
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> $9.95 domain names from Yahoo!. Register anything.
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http://us.click.yahoo.com/J8kdrA/y20IAA/yQLSAA/5AhqlB/TM
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> ntms-hsmm-unsubscribe@yahoogroups.com
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Ron

Do you Yahoo!?
The all-new My Yahoo! - Get yours free!
http://my.yahoo.com

Yahoo! Groups Links

[Non-text portions of this message have been removed]

290. Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

Yahoo group: DAWG-HSMM
Date: 2004-11-20 01:35:29 UTC
From: N5TIM
Topic: 284 Message: 290

I do not think that the second paragraph is entirely true. Most likely they either have not been approached or do not know what Winlink and TelPac are. My Emergency Manager looks for his RACES team to give him guidance and keep him abreast of advances in amateur radio. Houston and Austin both have strong digital infrastructure where as the D/FW outside of APRS has a poor digital infrastructure. This has a big impact on the success of Winlink.

Sorry about having EM's with that "keep it close" attitude. Here in Garland, the RACES group has been invited to participate in the testing of the city's 802 infrastructure. Internet access and all from your vehicle.

The entire topic of WInlink and TelPac need a better exposure here in NTexas and some Champions. The Dallas County RACES council has only once discussed WInlink.

If a Winlink expert is out there and wants to present a talk, I will be pleased to schedule this for a Garland ARC meeting. I am currently handling the programs. Give me a call.

John Galvin - N5TIM

At 11:35 11/19/2004, you wrote:

>Interestingly enough, when I mentioned the capability of TelPac to a couple of
>emergency managers last weekend, they both said NOW WAY are we going to allow
>our units in the field have direct access to the Internet...we want all
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>capability.
>
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>Quoting Douglas Kilgore <douglas.kilgore@...>:
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> > Doug Kilgore KD5OUG
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> > To visit your group on the web, go to:
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> > To unsubscribe from this group, send an email to:
> > ntms-hsmm-unsubscribe@yahoogroups.com
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> > Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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291. Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

Yahoo group: DAWG-HSMM
Date: 2004-11-20 04:16:44 UTC
From: Frank Krizan
Topic: 291 Message: 291

John,

Reference the program given on the AARA website http://www.qsl.net/w5vv

Jon is very qualified to give the program.

73, Frank

----- Original Message -----
From: N5TIM
To: ntms-hsmm@yahoogroups.com
Sent: Friday, November 19, 2004 7:35 PM
Subject: Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

I do not think that the second paragraph is entirely true. Most likely they either have not been approached or do not know what Winlink and TelPac are. My Emergency Manager looks for his RACES team to give him guidance and keep him abreast of advances in amateur radio. Houston and Austin both have strong digital infrastructure where as the D/FW outside of APRS has a poor digital infrastructure. This has a big impact on the success of Winlink.

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>messages going through our EOC before going up-channel.
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>Now as far as ARES having that capability...its a good idea but I'm seeing
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>capability.
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> > Communications reflector because of the mention of an 802.11b link in
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> > If you want to know more, go to:
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> > Doug Kilgore KD5OUG
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Yahoo! Groups Links

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292. Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

Yahoo group: DAWG-HSMM
Date: 2004-11-20 06:22:36 UTC
From: jbeadles@pobox.com
Topic: 284 Message: 292

John,

The Winlink guy the CCARES guy is talking to is out of Farmersville
and gave the discussion to the Telecom Corridor ARC meeting. The
CCARES is seriously interested about the WinLink2k / Telpac system,
and this person offered to reconfigure his system so that we could
test it. Let me get you in touch with N5BYL and he can point you to
the person.

On 19 Nov 2004 at 19:35, N5TIM wrote:

>
> I do not think that the second paragraph is entirely true. Most likely
> they either have not been approached or do not know what Winlink and TelPac
> are. My Emergency Manager looks for his RACES team to give him guidance
> and keep him abreast of advances in amateur radio. Houston and Austin both
> have strong digital infrastructure where as the D/FW outside of APRS has a
> poor digital infrastructure. This has a big impact on the success of Winlink.
>
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> Garland, the RACES group has been invited to participate in the testing of
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> the programs. Give me a call.
>
> John Galvin - N5TIM
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>
> At 11:35 11/19/2004, you wrote:
>
> >Interestingly enough, when I mentioned the capability of TelPac to a couple of
> >emergency managers last weekend, they both said NOW WAY are we going to allow
> >our units in the field have direct access to the Internet...we want all
> >messages going through our EOC before going up-channel.
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> >Now as far as ARES having that capability...its a good idea but I'm seeing
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> >Quoting Douglas Kilgore <douglas.kilgore@...>:
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> > > It describes where HSMM might fit into the picture.
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> > > If you want to know more, go to:
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> > > Doug Kilgore KD5OUG
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293. Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

Yahoo group: DAWG-HSMM
Date: 2004-11-20 14:06:21 UTC
From: Frank Krizan
Topic: 284 Message: 293

John,

Sorry about carrying this string so long, just look at qrz.com for Jon's email address.

73, Frank KR1ZAN

----- Original Message -----
From: jbeadles@...
To: ntms-hsmm@yahoogroups.com
Sent: Saturday, November 20, 2004 12:22 AM
Subject: Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

John,

The Winlink guy the CCARES guy is talking to is out of Farmersville
and gave the discussion to the Telecom Corridor ARC meeting. The
CCARES is seriously interested about the WinLink2k / Telpac system,
and this person offered to reconfigure his system so that we could
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> I do not think that the second paragraph is entirely true. Most likely
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> are. My Emergency Manager looks for his RACES team to give him guidance
> and keep him abreast of advances in amateur radio. Houston and Austin both

<<< Rest of message snipped out >>>

[Non-text portions of this message have been removed]

294. Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

Yahoo group: DAWG-HSMM
Date: 2004-11-20 17:42:46 UTC
From: Walt DuBose
Topic: 284 Message: 294

Frank Krizan wrote:
> For an excellent presentation on Winlink 2000 and associated sub-systems, given
> by Jon Brown, WB5KSD, to the Telecom Corridor Council of Clubs on November 1,
> 2004, link to http://www.qsl.net/w5vv Select the article in the table to the left.
>
> HF is only one part of the Winlink system. VHF and UHF are a vital part and
> would most likely be used to provide access between an EOC or emergency center
> and an access point linked to the Winlink system via an Internet connection.
> The typical "operator terminal" is a laptop running Airmail software connected
> via a serial port to a TNC and 2m or 70cm radio. The access point is similar,
> but, the AP computer is further connected to the Internet. Yes, in really tough
> cases, the link could be via the HF path. Other links could be via an 802.11
> path or portable satellite internet.
>
> de KR1ZAN

There are many network problems associated with WinLink. One is that there is only one MBO operating (in the mid-West) and it does not have an automatic fail back to another system. The backup system located in San Diego must be manually turned on and if it could be remotely turned on, if the Internet failed at the promary PMBO, then how odo you know to tunr on the backup.

Most if not all of the personal MBOs have a FQDN assigned by no-ip.net and depend on no-ip to convert their dynamic IP address to a FQDN. AS we have seen locally, if the local broadband provider has problems, the DHCP lease may not last long and in fact I have seen new IP addresses assigned each time the broadband resource went down...during the last storm, I got 3 different IP addresses in 8 hours.

These are just a few of the problems.

The system is very hackable using telent on an "odd" port as a way to deliver "traffic" to the MBOs.

Finally, while Ron's point about the proprietary mode (SCS's Partor III), we need to understand that on a poor CCIR Channel and at a low SNR (-5 dB SNR) Pactor III produces a lower throughput than MT63 and at a 0 dB SNR, only slightly better throughput.

While I think that the WinLink system can serve as a proof of concept model, I don't think it it one that serious emergency managers would want to depend on.

What we need to undertand as amateur radio operators it that trying to produce high-speed, robust HF modems in a 3 KHz wide channel is self defeating...we can produce high-speed or robust modes; but, not both. To produce a true high-speed, robust mode, you need somewhere between 6-10 KHz wide channels...and this is presently NOT in the ARRLs band plan.

What is really strange is that one of the main proponents of WinLink is also the chairman of the Digital Committee that has proposed only 3 KHz data channels.

Before committing time and resources into WinLink, I think we all would be well served to step back and take a good hard look at the technology proposed. I know that several individuals from the DFW area attending the DCC this year understand this problem and I hope that they will speak up on the problem.

73.

Walt/K5YFW

>
> ----- Original Message -----
> From: Ron Cole
> To: ntms-hsmm@yahoogroups.com
> Sent: Friday, November 19, 2004 3:40 PM
> Subject: Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]
>
>
>
> Another Emergency manager that does not understand
> emergency communications systems.
> The last thing you want to do is depend on a Cell
> Phone in a Disaster Situation.
> Cell Phone systems suffer from overloaded and
> Congested Systems, A dependency on Phone Lines to the
> cell site, as well as Power outages that can take the
> site off the air, many Cell Sites don't have long tern
> backup power, and you have a system the simply cannot
> be depended on in an emergency.
>
> As for WinLink 2000 I don't care for any technology
> that relies on special hardware and other Unreliable
> Technologies as this system does. If all goes well
> this system will work but with only one supplier of
> expensive equipment I'm not impressed. I wish more
> thought was put into this system before making a
> decision on the technologies being used.
>
>
>
> Ron

> N5HYH
>
> --- Frank Krizan <frank@...> wrote:
>
> >
> > Harris County (Houston, TX) is implementing WinLink
> > 2000 for EmComm. Collin County (Plano, TX) is
> > investigating it.
> >
> > Walt, I've heard similar things from emergency
> > personnel about Ham Radio. "We don't need some
> > amateurs when we can do everything using cell
> > phones."
> >
> > de Frank/KR1ZAN
> > Garland, TX
> >
> > ----- Original Message -----
> > From: dubose@...
> > To: ntms-hsmm@yahoogroups.com
> > Sent: Friday, November 19, 2004 11:35 AM
> > Subject: Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re:
> > Message Priority & Sequence]
> >
> >
> >
> > Interestingly enough, when I mentioned the
> > capability of TelPac to a couple of
> > emergency managers last weekend, they both said
> > NOW WAY are we going to allow
> > our units in the field have direct access to the
> > Internet...we want all
> > messages going through our EOC before going
> > up-channel.
> >
> > Now as far as ARES having that capability...its a
> > good idea but I'm seeing
> > that local goverment EOCs (and probably the state
> > EOC) don't want TelPac
> > capability.
> >
> > Walt/K5YFW
> >
> >
> > Quoting Douglas Kilgore
> > <douglas.kilgore@...>:
> > >
> > > I'm forwarding this message from the Winlink2000
> > Emergency
> > >

> > > Communications reflector because of the mention
> > of an 802.11b link in
> > >
> > > the last paragraph. Winlink2000 with TelPac is
> > what the ARRL is pushing
> > >
> > > for digital communications. This message is one
> > of a long thread on the
> > >
> > > subject of priorities and thruput.
> > >
> > >
> > >
> > > It describes where HSMM might fit into the
> > picture.
> > >
> > >
> > >
> > > If you want to know more, go to:
> > >
> > > http://groups.yahoo.com/group/wl2kemcomm/
> > >
> > >
> > >
> > > Doug Kilgore KD5OUG
> > >
> > >
> > >
> > > [Non-text portions of this message have been
> > removed]
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> > > Yahoo! Groups Sponsor
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> > > Yahoo! Groups Links
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> > >
> > > To visit your group on the web, go to:
> > > http://groups.yahoo.com/group/ntms-hsmm/
> > >
> > > To unsubscribe from this group, send an email
> > to:
> > > ntms-hsmm-unsubscribe@yahoogroups.com
> > >
> > > Your use of Yahoo! Groups is subject to the
> > Yahoo! Terms of Service.
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> > ---------- Yahoo! Groups Sponsor
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> > Yahoo! Groups Links
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> > ntms-hsmm-unsubscribe@yahoogroups.com
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> =====
> Ron
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>
> _____
> Do you Yahoo!?
> The all-new My Yahoo! - Get yours free!
> http://my.yahoo.com
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> Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
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> *Yahoo! Groups Sponsor*
> ADVERTISEMENT
> click here
> <http://us.ard.yahoo.com/SIG=12997okgg/M=298184.5584357.6650215.3001176/D=groups/S=1705644089:HM/EXP=1100988178/A=2434971/R=0/SIG=11eeoolb0/*http://www.netflix.com/Default?mqso=60185400>
>
>
> ---
> *Yahoo! Groups Links*
>
> * To visit your group on the web, go to:
> http://groups.yahoo.com/group/ntms-hsmm/
>
> * To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
> <mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/>.
>
>

295. Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority & Sequence]

Yahoo group: DAWG-HSMM
Date: 2004-11-20 18:39:37 UTC
From: N5TIM
Topic: 284 Message: 295

Thanks.

At 08:06 11/20/2004, you wrote:

>John,
>
>Sorry about carrying this string so long, just look at qrz.com for Jon's
>email address.
>
>73, Frank KR1ZAN
>
> ----- Original Message -----
> From: jbeadles@...
> To: ntms-hsmm@yahoogroups.com
> Sent: Saturday, November 20, 2004 12:22 AM
> Subject: Re: [ntms-hsmm] [Fwd: [wl2kemcomm] Re: Message Priority &
> Sequence]
>
>
>
> John,
>
> The Winlink guy the CCARES guy is talking to is out of Farmersville
> and gave the discussion to the Telecom Corridor ARC meeting. The
> CCARES is seriously interested about the WinLink2k / Telpac system,
> and this person offered to reconfigure his system so that we could
> test it. Let me get you in touch with N5BYL and he can point you to
> the person.
>
> On 19 Nov 2004 at 19:35, N5TIM wrote:
>
> >
> > I do not think that the second paragraph is entirely true. Most likely
> > they either have not been approached or do not know what Winlink and
> TelPac
> > are. My Emergency Manager looks for his RACES team to give him guidance
> > and keep him abreast of advances in amateur radio. Houston and
> Austin both
>
> <<< Rest of message snipped out >>>
>
>
>[Non-text portions of this message have been removed]
>
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>Yahoo! Groups Links
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296. Weather Proof Accesss Points

Yahoo group: DAWG-HSMM
Date: 2004-11-21 02:40:34 UTC
From: radiorandr
Topic: 296 Message: 296

Does anyone have any suggestions for the following:

Basic enclosures

Weather proof ethernet connectors

Low cost 12 VDC to 5 VDC switching power supplies

Thanks,

Tony
W5ADC

297. Re: [ntms-hsmm] Weather Proof Accesss Points

Yahoo group: DAWG-HSMM
Date: 2004-11-21 04:31:03 UTC
From: Douglas Kilgore
Topic: 296 Message: 297

Try the Pacific Wireless RooTenna. They advertise that it meets NEMA-4 requirements and has a built-in 14 dbi antenna and a waterproof CAT-5 gasket. It even has a mounting bracket.
http://www.pacwireless.com/products/RT24-14_Data_Sheet.pdf

Available from:
http://www.wisp-router.com/product_info.php?products_id=203&osCsid=44073004db807eb98e8347b332f9877f

radiorandr wrote:
>
> Does anyone have any suggestions for the following:
>
> Basic enclosures
>
> Weather proof ethernet connectors
>
> Low cost 12 VDC to 5 VDC switching power supplies
>
> Thanks,
>
> Tony
> W5ADC

298. RE: [ntms-hsmm] Weather Proof Accesss Points

Yahoo group: DAWG-HSMM
Date: 2004-11-21 15:42:29 UTC
From: Rosalio Salas
Topic: 296 Message: 298

Tony,

Here in Paris, TX we are running an HSMM System using a LocustWorld Meshbox software with Mac Authentication. We are using a sealed fiberglass enclosure a little larger than 9x11x5 with a 12v Via logic board that requires no fan. A regulated 15 volt laptop power supply is used for a power source within 50 ft to a transistor inside the box which converts it to 11.8v solid. The specs of the logic board does not allow us to run over 12.4V i think so the regular astron power supply will not work at 13.8v.

A Cat-5E cable is used for the ethernet connection to the internet. It is a UV protected buriable type cable and runs directly into the bottom of the box with strain releif. Coax to the antenna is kept to a minimum this way by having the box mounted to the lower half of the antenna mast or tower top section. We run LMR-400 or LMR-600 depending on the antenna we use.

Our system ERP is within the Part 15 regulations for commercial systems and it seems to have a line-of sight coverage of 5-15 miles depending on what antenna is used on the other side. I have experimented with a 7dBi mag mount antenna, an SMC 200mw PCMCIA card and have been able to reach the system from all but 1 spotter location here. Those are within 5 miles.

Most of the equipment came from Digikey.

73s Leo, N5JEP

-----Original Message-----
From: radiorandr [mailto:radiorandr@...]
Sent: Saturday, November 20, 2004 8:41 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Weather Proof Accesss Points

Does anyone have any suggestions for the following:

Basic enclosures

Weather proof ethernet connectors

Low cost 12 VDC to 5 VDC switching power supplies

Thanks,

Tony
W5ADC

[Non-text portions of this message have been removed]

299. RE: [ntms-hsmm] Weather Proof Accesss Points

Yahoo group: DAWG-HSMM
Date: 2004-11-21 16:50:30 UTC
From: Anthony Campbell
Topic: 296 Message: 299

Sounds like a very nice network. Do you have any
additional information to share?

Thanks,

Tony
W5ADC
--- Rosalio Salas <n5jep@...> wrote:

> Tony,
>
> Here in Paris, TX we are running an HSMM System
> using a LocustWorld
> Meshbox software with Mac Authentication. We are
> using a sealed
> fiberglass enclosure a little larger than 9x11x5
> with a 12v Via logic
> board that requires no fan. A regulated 15 volt
> laptop power supply is
> used for a power source within 50 ft to a transistor
> inside the box
> which converts it to 11.8v solid. The specs of the
> logic board does not
> allow us to run over 12.4V i think so the regular
> astron power supply
> will not work at 13.8v.
>
> A Cat-5E cable is used for the ethernet connection
> to the internet. It
> is a UV protected buriable type cable and runs
> directly into the bottom
> of the box with strain releif. Coax to the antenna
> is kept to a minimum
> this way by having the box mounted to the lower half
> of the antenna mast
> or tower top section. We run LMR-400 or LMR-600
> depending on the
> antenna we use.
>
> Our system ERP is within the Part 15 regulations for
> commercial systems
> and it seems to have a line-of sight coverage of
> 5-15 miles depending on
> what antenna is used on the other side. I have
> experimented with a 7dBi
> mag mount antenna, an SMC 200mw PCMCIA card and have

> been able to reach
> the system from all but 1 spotter location here.
> Those are within 5
> miles.
>
> Most of the equipment came from Digikey.
>
> 73s Leo, N5JEP
>
> -----Original Message-----
> From: radiorandr [mailto:radiorandr@...]
> Sent: Saturday, November 20, 2004 8:41 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Weather Proof Accesss Points
>
>
>
> Does anyone have any suggestions for the following:
>
> Basic enclosures
>
> Weather proof ethernet connectors
>
> Low cost 12 VDC to 5 VDC switching power supplies
>
> Thanks,
>
> Tony
> W5ADC
>
>
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>
> [Non-text portions of this message have been
> removed]
>
>

300. RE: [ntms-hsmm] Weather Proof Accesss Points

Yahoo group: DAWG-HSMM
Date: 2004-11-21 17:39:48 UTC
From: N5TIM
Topic: 296 Message: 300

Leo,
If the Astron power supply is a linear style rather than a switcher, there is a variable resistor in the circuitry that can adjust the output voltage in some cases over quite a range. You might try that. Sorry I don't remember the reference designator of the pot, but its easy to find on the schematic.

73, John - N5TIM

At 09:42 11/21/2004, you wrote:

>Tony,
>
> Here in Paris, TX we are running an HSMM System using a LocustWorld
>Meshbox software with Mac Authentication. We are using a sealed
>fiberglass enclosure a little larger than 9x11x5 with a 12v Via logic
>board that requires no fan. A regulated 15 volt laptop power supply is
>used for a power source within 50 ft to a transistor inside the box
>which converts it to 11.8v solid. The specs of the logic board does not
>allow us to run over 12.4V i think so the regular astron power supply
>will not work at 13.8v.
>
>A Cat-5E cable is used for the ethernet connection to the internet. It
>is a UV protected buriable type cable and runs directly into the bottom
>of the box with strain releif. Coax to the antenna is kept to a minimum
>this way by having the box mounted to the lower half of the antenna mast
>or tower top section. We run LMR-400 or LMR-600 depending on the
>antenna we use.
>
>Our system ERP is within the Part 15 regulations for commercial systems
>and it seems to have a line-of sight coverage of 5-15 miles depending on
>what antenna is used on the other side. I have experimented with a 7dBi
>mag mount antenna, an SMC 200mw PCMCIA card and have been able to reach
>the system from all but 1 spotter location here. Those are within 5
>miles.
>
>Most of the equipment came from Digikey.
>
>73s Leo, N5JEP
>
>-----Original Message-----
>From: radiorandr [mailto:radiorandr@...]
>Sent: Saturday, November 20, 2004 8:41 PM
>To: ntms-hsmm@yahoogroups.com
>Subject: [ntms-hsmm] Weather Proof Accesss Points
>

>
>
>Does anyone have any suggestions for the following:
>
>Basic enclosures
>
>Weather proof ethernet connectors
>
>Low cost 12 VDC to 5 VDC switching power supplies
>
>Thanks,
>
>Tony
>W5ADC
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>[Non-text portions of this message have been removed]
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301. RE: [ntms-hsmm] Weather Proof Accesss Points

Yahoo group: DAWG-HSMM
Date: 2004-11-22 16:55:01 UTC
From: Rosalio Salas
Topic: 296 Message: 301

Other than that not must to say. We're using a 3deg down tilt 12dBi omni for it and just moved it to it's own pole this weekend to test range. The Meshbox can run on any Pentium class computer with 128 megs of ram and used 32megs of hd space. Software is free on the internet. www.locustworld.com

-----Original Message-----
From: Anthony Campbell [mailto:radiorandr@...]
Sent: Sunday, November 21, 2004 10:51 AM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Weather Proof Accesss Points

Sounds like a very nice network. Do you have any additional information to share?

Thanks,

Tony
W5ADC
--- Rosalio Salas <n5jep@...> wrote:

> Tony,
>
> Here in Paris, TX we are running an HSMM System
> using a LocustWorld
> Meshbox software with Mac Authentication. We are
> using a sealed
> fiberglass enclosure a little larger than 9x11x5
> with a 12v Via logic
> board that requires no fan. A regulated 15 volt
> laptop power supply is
> used for a power source within 50 ft to a transistor
> inside the box
> which converts it to 11.8v solid. The specs of the
> logic board does not
> allow us to run over 12.4V i think so the regular
> astron power supply
> will not work at 13.8v.
>
> A Cat-5E cable is used for the ethernet connection
> to the internet. It
> is a UV protected buriable type cable and runs
> directly into the bottom
> of the box with strain releif. Coax to the antenna
> is kept to a minimum
> this way by having the box mounted to the lower half

> of the antenna mast
> or tower top section. We run LMR-400 or LMR-600
> depending on the
> antenna we use.
>
> Our system ERP is within the Part 15 regulations for
> commercial systems
> and it seems to have a line-of sight coverage of
> 5-15 miles depending on
> what antenna is used on the other side. I have
> experimented with a 7dBi
> mag mount antenna, an SMC 200mw PCMCIA card and have
> been able to reach
> the system from all but 1 spotter location here.
> Those are within 5
> miles.
>
> Most of the equipment came from Digikey.
>
> 73s Leo, N5JEP
>
> -----Original Message-----
> From: radiorandr [mailto:radiorandr@...]
> Sent: Saturday, November 20, 2004 8:41 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Weather Proof Accesss Points
>
>
>
> Does anyone have any suggestions for the following:
>
> Basic enclosures
>
> Weather proof ethernet connectors
>
> Low cost 12 VDC to 5 VDC switching power supplies
>
> Thanks,
>
> Tony
> W5ADC
>
>
>
>
> [Non-text portions of this message have been
> removed]
>
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<http://us.ard.yahoo.com/SIG=129lbc66i/M=298184.5584357.6650215.3001176/D=groups/S=1705644089:HM/EXP=1101142293/A=2434970/R=0/SIG=11edksnhv/*http://www.netflix.com/Default?mqso=60185402> click here

<http://us.adserver.yahoo.com/l?M=298184.5584357.6650215.3001176/D=groups/S=:HM/A=2434970/rand=438831245>

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http://groups.yahoo.com/group/ntms-hsmm/

* To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com
<mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>

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Service <http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

302. RE: [ntms-hsmm] Weather Proof Accesss Points

Yahoo group: DAWG-HSMM
Date: 2004-11-22 16:56:12 UTC
From: Rosalio Salas
Topic: 296 Message: 302

I have a switching supply here but the laptop computer brick is great.
The whole thing runs at less than 60 watts. I think somewhere they
figured the total power draw one booted was only .4-.5 amp.

-----Original Message-----
From: N5TIM [mailto:n5tim@...]
Sent: Sunday, November 21, 2004 11:40 AM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Weather Proof Accesss Points

Leo,
If the Astron power supply is a linear style rather than a switcher,
there
is a variable resistor in the circuitry that can adjust the output
voltage
in some cases over quite a range. You might try that. Sorry I don't
remember the reference designator of the pot, but its easy to find on
the
schematic.

73, John - N5TIM

At 09:42 11/21/2004, you wrote:

>Tony,
>
> Here in Paris, TX we are running an HSMM System using a
LocustWorld
>Meshbox software with Mac Authentication. We are using a sealed
>fiberglass enclosure a little larger than 9x11x5 with a 12v Via logic
>board that requires no fan. A regulated 15 volt laptop power supply is
>used for a power source within 50 ft to a transistor inside the box
>which converts it to 11.8v solid. The specs of the logic board does
not
>allow us to run over 12.4V i think so the regular astron power supply
>will not work at 13.8v.
>
>A Cat-5E cable is used for the ethernet connection to the internet. It
>is a UV protected buriable type cable and runs directly into the bottom
>of the box with strain releif. Coax to the antenna is kept to a
minimum
>this way by having the box mounted to the lower half of the antenna
mast
>or tower top section. We run LMR-400 or LMR-600 depending on the
>antenna we use.
>

>Our system ERP is within the Part 15 regulations for commercial systems
>and it seems to have a line-of sight coverage of 5-15 miles depending
on
>what antenna is used on the other side. I have experimented with a
7dBi
>mag mount antenna, an SMC 200mw PCMCIA card and have been able to reach
>the system from all but 1 spotter location here. Those are within 5
>miles.
>
>Most of the equipment came from Digikey.
>
>73s Leo, N5JEP
>
>-----Original Message-----
>From: radiorandr [mailto:radiorandr@...]
>Sent: Saturday, November 20, 2004 8:41 PM
>To: ntms-hsmm@yahoogroups.com
>Subject: [ntms-hsmm] Weather Proof Accesss Points
>
>
>
>Does anyone have any suggestions for the following:
>
>Basic enclosures
>
>Weather proof ethernet connectors
>
>Low cost 12 VDC to 5 VDC switching power supplies
>
>Thanks,
>
>Tony
>W5ADC
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>[Non-text portions of this message have been removed]
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<http://us.adserver.yahoo.com/l?M=298184.5584357.6650215.3001176/D=groups/S=:HM/A=2434970/rand=113353406>

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/

* To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com
<mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>

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Service <http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

303. Re: Weather Proof Accesss Points

Yahoo group: DAWG-HSMM
Date: 2004-11-23 14:26:29 UTC
From: J. Beadles
Topic: 296 Message: 303

Tony,

Look at http://www.demarctech.com/products/reliawave-ode/reliawave-rw-ode-main.html

This is what QHH is using for the mesh AP in the photos on my HSMM web page. It's a really good $65 kit and includes the upstream POE picker. Randy has discussed with me having a "punching party" where he brings his greenlee punches for punching out those N connector D holes. I'm going to replace my plastic boxes for this eventually, as these are much more compact.

--- In ntms-hsmm@yahoogroups.com, "radiorandr" <radiorandr@y...> wrote:
>
> Does anyone have any suggestions for the following:
>
> Basic enclosures
>
> Weather proof ethernet connectors
>
> Low cost 12 VDC to 5 VDC switching power supplies
>
> Thanks,
>
> Tony
> W5ADC

304. Test AP in North Irving

Yahoo group: DAWG-HSMM
Date: 2004-11-23 14:51:55 UTC
From: Tom Trissell
Topic: 304 Message: 304

Due to job changes, I am moving from an apartment to the Crossland extend stay hotel at Beltline and Walnut Hill.

I would like to find out if there is a test AP in the area that I could try to work and see if I have my laptop system setup right. I figured I would try and get a room on the 3rd floor but did not know which side of the building to try for.

I am also planning on setting up my APRS station to learn more about UI-View using a TH-D7G on the laptop.

Thanks, 73 Tom KC5ILO

305. December NTMS Meeting

Yahoo group: DAWG-HSMM
Date: 2004-12-01 02:44:29 UTC
From: Bob and Debbie Kmak
Topic: 305 Message: 305

Greetings,

The December North Texas Microwave Society meeting will be held at the University of North Texas campus, on December 4th.
It will be in Room 418 of the Union Building.
Informal chat and swap meet at 12 PM. Official meeting starts at 1 PM.

The Agenda:

Election of Officers/ Club Directions for 2005

Antenna Aiming Issues for Microwave Rovers, by Wes Atchison, WA5TKU

Slots and Other 2.4 GHz Antennas, by Kent Britain, WA5VJB

A $20 Wifi Spectrum Analyzer, by Bob Kmak, K5WO

Please join us for this important and interesting meeting.

Directions to UNT:
From Dallas:

North on I-35E to Denton

Exit North Texas Blvd, turn right at light

Travel two blocks, turn right on Eagle Drive

Travel approx. ½ mile, turn left on Welsh St.

Travel three blocks, turn left on W Prairie St. (one way street)

Take first left into parking lot

W Prairie St., Avenue A and W Chestnut St form a square

The Union Building is on Avenue A.

Meeting in Room 418 of the Union Building, on the fourth floor.

From Ft. Worth:

North on I-35W to Denton

Exit W. Airport Rd (FM1515), S. Bonnie Brae, not sure how exit is marked

Turn right and proceed to the I-35E service road, turn right (towards Dallas)

Travel to North Texas Blvd, turn left, crossing over I-35E

Travel two blocks, turn right on Eagle Drive

Travel approx. ½ mile, turn left on Welsh St.

Travel three blocks, turn left on W Prairie St. (one way street)

Take first left into parking lot

W Prairie St., Avenue A and W Chestnut St form a square

The Union Building is on Avenue A.

Meeting in Room 418 of the Union Building, on the fourth floor.

See you there!

Bob, K5WO

[Non-text portions of this message have been removed]

306. Hi Power Bridge/Access Point

Yahoo group: DAWG-HSMM
Date: 2004-12-03 21:09:44 UTC
From: Douglas Kilgore
Topic: 306 Message: 306

Santa Claus visited me.

From a WISP here in Dallas, I bought two of the Engenius NL2611 CB3+Deluxe Long Range Multi-Clent Bridges. These units can be either a bridge or access point. They have 200mw (23dbm) output and 3dbm greater sensitivity than many access point. They operate with 12 volts and Power-over-Ethernet.

http://www.engeniustech.com/datacom/

Here's an interesting page on hacking a unit. (Senao and Engenius are the same).
http://www.guerrilla.net/reference/80211_mod/Senao_AP3_CB3/

I decided to go with the 802.11b units instead of the G because any network incorporationg a B will automatically stay at the B speed. And that has longer range.

I also purchased a 14dbi Pacific Wireless Rootenna in which to mount one of the Engenius boxes.

http://www.pacwireless.com/products/RT24-14.shtml

Now I'm going to have fun.

Doug Kilgore KD5OUG
kd5oug@...

307. WRT-54G testing

Yahoo group: DAWG-HSMM
Date: 2004-12-07 01:27:13 UTC
From: J. Beadles
Topic: 307 Message: 307

I've been asked to set up a presentation for the January NTMS meeting around the WRT-54G box. However, I can't say I've used it extensively yet. We need to have a mesh networking testing session. Anybody up for participating?

308. Re: [ntms-hsmm] WRT-54G testing

Yahoo group: DAWG-HSMM
Date: 2004-12-07 04:40:05 UTC
From: Douglas Kilgore
Topic: 307 Message: 308

I recently purchased two Senao/Engenius High Power MultiClient Bridges and an antenna from a local WISP. This company is using the Senao and Linksys WRT54G to form a LocustWorld mesh net to provide wireless internet to the North Dallas Richardson area. (www.locustworld.com) He is very much interested in working with ham radio operators that have tall towers to expand his area of coverage. He is willing to sell equipment to hams at very low markup to increase his purchasing volume.

He is also working in the Paris, TX area for the mesh network.

He has a PowerPoint presentation available but I suspect that it is more of a sales tool rather that a technical presentation. I sure he would be interested in making a presentation to the group,. Maybe we could work that in.

In the meantime, I would be willing to work with my Senao equpment to work on the mesh net with WRT54G.

Doug Kilgore KD5OUG
kd5oug@...

J. Beadles wrote:

>I've been asked to set up a presentation for the January NTMS meeting
>around the WRT-54G box. However, I can't say I've used it
>extensively yet. We need to have a mesh networking testing session.
>Anybody up for participating?
>
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>
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>

309. RE: [ntms-hsmm] WRT-54G testing

Yahoo group: DAWG-HSMM
Date: 2004-12-07 06:20:55 UTC
From: Rosalio Salas
Topic: 307 Message: 309

Doug,
I work for a local WISP here in Paris doing the LocustWorld Mesh network. I wonder if I know this person as well. I would be interested in the presentation as well.
Leo, N5JEP

-----Original Message-----
From: Douglas Kilgore [mailto:douglas.kilgore@...]
Sent: Monday, December 06, 2004 10:40 PM
To: ntms-hsmm@yahoogroups.com
Cc: dwk
Subject: Re: [ntms-hsmm] WRT-54G testing

I recently purchased two Senao/Engenius High Power MultiClient Bridges and an antenna from a local WISP. This company is using the Senao and Linksys WRT54G to form a LocustWorld mesh net to provide wireless internet to the North Dallas Richardson area. (www.locustworld.com) He is very much interested in working with ham radio operators that have tall towers to expand his area of coverage. He is willing to sell equipment to hams at very low markup to increase his purchasing volume.

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Doug Kilgore KD5OUG
kd5oug@...

J. Beadles wrote:

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<http://us.adserver.yahoo.com/l?M=294855.5468653.6549235.3001176/D=groups/S=:HM/A=2455396/rand=355819911>

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ntms-hsmm-unsubscribe@yahoogroups.com
<mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>

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Service <http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

310. Re: WRT-54G testing

Yahoo group: DAWG-HSMM
Date: 2004-12-10 01:05:50 UTC
From: J. Beadles
Topic: 307 Message: 310

Good! We'll have to schedule. Let me wrap up Randy Dunning and see
what we can do. You got any evening or weekend schedule conflicts?

--- In ntms-hsmm@yahoogroups.com, Douglas Kilgore
<douglas.kilgore@c...> wrote:
> I recently purchased two Senao/Engenius High Power MultiClient
Bridges
> and an antenna from a local WISP. This company is using the Senao
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> Linksys WRT54G to form a LocustWorld mesh net to provide wireless
> internet to the North Dallas Richardson area.
(www.locustworld.com) He
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> He is also working in the Paris, TX area for the mesh network.
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> He has a PowerPoint presentation available but I suspect that it is
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>
> Doug Kilgore KD5OUG
> kd5oug@a...
>
>
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session.
> >Anybody up for participating?
> >

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311. Re: [ntms-hsmm] Re: WRT-54G testing

Yahoo group: DAWG-HSMM
Date: 2004-12-10 04:38:54 UTC
From: Rusty Haddock
Topic: 307 Message: 311

FWIW, I was in OfficeMax Wednesday night, up in McKinney. While I don't know if it's a great price but they were selling the WRT54G -- the older ones, not the latest SuperSpeed version (or whatever LinkSys is calling it) -- for $79 w/ a $20 rebate. Either way, that's not bad for a little Linux box.

I may pick one up going into work tomorrow. I'll be glad to help out, at least supply my WRT54G's but I won't be much good 'til after New Year's Day.

-Rusty-
--
_____ Rusty Haddock = KD4WLZ = rusty@...
|\/ o \ o **Out yonder in the Van Alstyne (TX) Metropolitan Area**
| (-< O o Microsoft is to software what
|/__V__/ McDonalds is to gourmet cooking

312. Re: [ntms-hsmm] Re: WRT-54G testing

Yahoo group: DAWG-HSMM
Date: 2004-12-10 19:05:58 UTC
From: Douglas Kilgore
Topic: 307 Message: 312

I have my son and granddaughter visiting from Denver. Also I am working the White Rock Marathon Sunday and probably won't be done there until 4:00pm.

I guess that wipes out the weekend.

Then there's the RWK dinner Monday.

After that my time is flexible.

J. Beadles wrote:

>Good! We'll have to schedule. Let me wrap up Randy Dunning and see
>what we can do. You got any evening or weekend schedule conflicts?
>
>--- In ntms-hsmm@yahoogroups.com, Douglas Kilgore
><douglas.kilgore@c...> wrote:
>
>
>>I recently purchased two Senao/Engenius High Power MultiClient
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>Bridges
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>>and an antenna from a local WISP. This company is using the Senao
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>and
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>>Linksys WRT54G to form a LocustWorld mesh net to provide wireless
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>(www.locustworld.com) He
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>>work on the mesh net with WRT54G.
>>
>>Doug Kilgore KD5OUG
>>kd5oug@a...
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>>
>>J. Beadles wrote:
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>session.
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>>>Anybody up for participating?
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313. Looking for Wifi Connectors

Yahoo group: DAWG-HSMM
Date: 2004-12-14 12:22:39 UTC
From: Bob and Debbie Kmak
Topic: 313 Message: 313

All:

The January NTMS meeting will include a mini workshop devoted to measuring the signal loss of WiFi jumpers and pigtails. To that end I've been gathering the usual reverse polarity adapters, but have been unable to find a source for a MC Card **jack** and a reverse polarity MMCX **jack** . If anyone knows of a source for these connectors, please let me know. Or if your have a dead Wifi device that has one of these connectors, and wouldn't mind sacrificing it to the cause, please contact me.

73,

Bob Kmak K5WO

NTMS VP

314. Re: [ntms-hsmm] Looking for Wifi Connectors

Yahoo group: DAWG-HSMM
Date: 2004-12-14 14:05:03 UTC
From: Keith Berry
Topic: 313 Message: 314

Bob,

Try these sources:

http://www.fab-corp.com/

http://www.hyperlinktech.com/web/connectors/connectors_mmcx.php

http://www.hyperlinktech.com/web/connectors/connectors_mc_card.php

Regards,
Keith KE0FV

--- Bob and Debbie Kmak <bdkmak@...> wrote:

All:

The January NTMS meeting will include a mini workshop
devoted to measuring
the signal loss of WiFi jumpers and pigtails. To that
end I've been
gathering the usual reverse polarity adapters, but
have been unable to find
a source for a MC Card **jack** and a reverse polarity
MMCX **jack** . If
anyone knows of a source for these connectors, please
let me know. Or if
your have a dead Wifi device that has one of these
connectors, and wouldn't
mind sacrificing it to the cause, please contact me.

73,

Bob Kmak K5WO

NTMS VP

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315. 05 Hamcom HSMM Programming

Yahoo group: DAWG-HSMM
Date: 2004-12-14 16:47:14 UTC
From: J. Beadles
Topic: 315 Message: 315

All,

Hamcom is the north Texas regional hamfest held in the Arlington, TX convention center. This year, Hamcom will be a three day event running June 3, 4 and 5.

At Hamcom last year I coordinated a set of APRS and HSMM presentations. This year I've been tapped to be Hamcom's programming director, which just goes to show that no good deed goes unpunished.

So, naturally, I'm looking for programs! I've been asked to have a preliminary list of programs by the end of this month so that they can be published on the Hamcom web site. Naturally we'll retain all of the usual events, association meetings and presentations; however, it is my intent to specifically focus on training in various topics, sort of a "Hamcom University".

In the past year, I'm seeing some of TX county organizations starting to adopt Winlink 2000 over VHF Packet using Telpac. What I would like to do is to develop some additional training that discusses how to integrate APRS, Winlink over VHF packet and HSMM into a cohesive system. In addition, I'd like to keep our existing APRS and HSMM training.

We certainly have time to put this together, but if you think you might be interested in helping with this effort, please shoot me an email to n5oom@....

316. Re: [ntms-hsmm] Looking for Wifi Connectors

Yahoo group: DAWG-HSMM
Date: 2004-12-15 02:22:13 UTC
From: Keith Berry
Topic: 313 Message: 316

Oops, didn't read close enough at the office. You were wanting jacks. Try this link for individual jacks http://www.rfconnector.com/ and this link for pigtails http://www.customcableinc.com

Keith

----- Original Message -----
From: Keith Berry
To: ntms-hsmm@yahoogroups.com
Sent: Tuesday, December 14, 2004 8:05
Subject: Re: [ntms-hsmm] Looking for Wifi Connectors

Bob,

Try these sources:

http://www.fab-corp.com/

http://www.hyperlinktech.com/web/connectors/connectors_mmcx.php

http://www.hyperlinktech.com/web/connectors/connectors_mc_card.php

Regards,
Keith KE0FV

--- Bob and Debbie Kmak <bdkmak@...> wrote:

All:

The January NTMS meeting will include a mini workshop
devoted to measuring
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gathering the usual reverse polarity adapters, but
have been unable to find
a source for a MC Card **jack** and a reverse polarity
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anyone knows of a source for these connectors, please
let me know. Or if
your have a dead Wifi device that has one of these
connectors, and wouldn't
mind sacrificing it to the cause, please contact me.

73,

Bob Kmak K5WO

NTMS VP

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[Non-text portions of this message have been removed]

317. Re: [ntms-hsmm] Looking for Wifi Connectors

Yahoo group: DAWG-HSMM
Date: 2004-12-15 04:02:33 UTC
From: Bob and Debbie Kmak
Topic: 313 Message: 317

Keith,

Thanks for the tips. It doesn't look like rf connector sells any reverse polarity mmcx jacks. I think I saw some on the Amphenol website; just need to find out where I can buy a single unit. I've pretty much given up on finding an MC card jack...

Bob

----- Original Message -----
From: "Keith Berry" <berryko@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Tuesday, December 14, 2004 8:22 PM
Subject: Re: [ntms-hsmm] Looking for Wifi Connectors

>
> Oops, didn't read close enough at the office. You were wanting jacks.
Try this link for individual jacks http://www.rfconnector.com/ and this link
for pigtails http://www.customcableinc.com
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> Keith
>
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> From: Keith Berry
> To: ntms-hsmm@yahoogroups.com
> Sent: Tuesday, December 14, 2004 8:05
> Subject: Re: [ntms-hsmm] Looking for Wifi Connectors
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>
> Bob,
>
> Try these sources:
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> http://www.fab-corp.com/
>
> http://www.hyperlinktech.com/web/connectors/connectors_mmcx.php
>
> http://www.hyperlinktech.com/web/connectors/connectors_mc_card.php
>
> Regards,
> Keith KE0FV
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> --- Bob and Debbie Kmak <bdkmak@...> wrote:
>
>

> ---
> All:
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> NTMS VP
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318. January North Texas Microwave Society Meeting in Richardson

Yahoo group: DAWG-HSMM
Date: 2004-12-20 20:44:19 UTC
From: Bob and Debbie Kmak
Topic: 318 Message: 318

Guys,

Do you know how much of your 802.11 signal is being lost in your coax jumpers? The January NTMS meeting will feature a workshop by Kent Britain, WA5VJB, for testing the loss of any WiFi jumpers or pigtails people bring in. He will have adapters for the following connectors:

Reverse polarity SMA plug
Reverse polarity SMA jack
Reverse polarity TNC plug
Reverse polarity TNC jack
MMCX plug

The meeting will be on Saturday, January 8th at the St. Barnabas Presbyterian Church, on the NE corner of Mimosa and Belt Line Road, in Richardson.
Time is 12 PM to 5 PM, although the cable testing workshop is only inteneded to last for the frst hour or two.

In addition, there will be another mini-workshop for measuring transmitter output of VHF/UHF & up radios, and checking the calibration of VHF/UHF wattmeters. Al Ward, W5LUA, will be running the tests with accurate power meters and a spectrum analyzer.

Presentations:

"Using the Linksys WRT54G Wireless Router" by John Beadles, N5OOM
"Using APRS to Track Microwave Rovers", by Bob Kmak, K5WO

Meeting time: 12 PM to 5 PM (cable and transmitter testing from 12 PM to 2 PM)
Saturday January 8th, 2005

Location: St. Barnabas Presbyterian Church
1220 W. Belt Line Rd.
(NE corner of Mimosa and Belt Line)
Richardson, TX

Entrance to meeting hall is from the parking lot on the north side of the building.

Come join us for a fun time and bring your rig, wattmeter, or WiFi jumpers and pigtails for testing!

NTMS website: www.ntms.org

For more info or questions contact Bob Kmak, K5WO k5wo at arrl.net

319. Re: WRT-54G testing

Yahoo group: DAWG-HSMM
Date: 2004-12-21 15:09:45 UTC
From: J. Beadles
Topic: 307 Message: 319

Let's look into early January since I'll be busy through Christmas at
least. I talked to Randy, and while he's been busy collecting info
on network management utilities, he's also going to have to stand for
reelection for Garland city council, so his time will be limited.

--- In ntms-hsmm@yahoogroups.com, Douglas Kilgore
<douglas.kilgore@c...> wrote:
> I have my son and granddaughter visiting from Denver. Also I am
working
> the White Rock Marathon Sunday and probably won't be done there
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> 4:00pm.
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> I guess that wipes out the weekend.
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>
> After that my time is flexible.
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> >>
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> >to
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> >
> >>work on the mesh net with WRT54G.
> >>

> >>Doug Kilgore KD5OUG
> >>kd5oug@a...
> >>
> >>
> >>J. Beadles wrote:
> >>
> >>
> >>
> >>>I've been asked to set up a presentation for the January NTMS
> >>>
> >>>
> >meeting
> >
> >
> >>>around the WRT-54G box. However, I can't say I've used it
> >>>extensively yet. We need to have a mesh networking testing
> >>>
> >>>
> >session.
> >
> >
> >>>Anybody up for participating?
> >>>
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> >Yahoo! Groups Links
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320. Re: WRT-54G testing

Yahoo group: DAWG-HSMM
Date: 2004-12-21 15:12:22 UTC
From: J. Beadles
Topic: 307 Message: 320

--- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@f...> wrote:
> FWIW, I was in OfficeMax Wednesday night, up in McKinney. While I
> don't know if it's a great price but they were selling the WRT54G --
> the older ones, not the latest SuperSpeed version (or whatever
LinkSys
> is calling it) -- for $79 w/ a $20 rebate. Either way, that's not
bad
> for a little Linux box.
>
> I may pick one up going into work tomorrow. I'll be glad to help
out,
> at least supply my WRT54G's but I won't be much good 'til after New
> Year's Day.

Me too. I suspect this will be an early January thing, weather
dependent. I am going to have to do something before that NTMS
meeting since I'm supposed to present.

321. More WRT-54G stuff

Yahoo group: DAWG-HSMM
Date: 2004-12-27 16:16:42 UTC
From: J. Beadles
Topic: 321 Message: 321

Looking at the store prices, WRT-54Gs seem to be going for about $49 everywhere, after rebate. However, they are $49 straight up in the blister pack at Sams club.

322. Re: WRT-54G testing

Yahoo group: DAWG-HSMM
Date: 2004-12-27 16:22:42 UTC
From: J. Beadles
Topic: 307 Message: 322

Reading back on the NTMS meeting announcement, this would have to be
a really, really early Jan thing, since the meeting is on the 8th.
So, I'll probably be working on this from now until then.

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
> --- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@f...> wrote:
> > FWIW, I was in OfficeMax Wednesday night, up in McKinney. While I
> > don't know if it's a great price but they were selling the
WRT54G --
> > the older ones, not the latest SuperSpeed version (or whatever
> LinkSys
> > is calling it) -- for $79 w/ a $20 rebate. Either way, that's
not
> bad
> > for a little Linux box.
> >
> > I may pick one up going into work tomorrow. I'll be glad to help
> out,
> > at least supply my WRT54G's but I won't be much good 'til after
New
> > Year's Day.
>
> Me too. I suspect this will be an early January thing, weather
> dependent. I am going to have to do something before that NTMS
> meeting since I'm supposed to present.

323. NTMS January Meeting Reminder

Yahoo group: DAWG-HSMM
Date: 2005-01-04 16:29:35 UTC
From: bdkmak@comcast.net
Topic: 323 Message: 323

North Texas Microwave Society Meeting
January 8, 2005
12 PM to 5 PM
Saint Barnabas Presbyterian Church Meeting Hall
1220 W. Belt Line Road (NE corner of Mimosa and Belt Line Rd)
Richardson, TX

Access to the meeting hall is from the parking lot on the north side of the building.
Please join us for the first NTMS meeting of the new year.

Program highlights:

Mini workshop for measuring the power output of VHF/UHF radios, as well as
checking the calibration of commonly available VHF/UHF wattmeters.
Al Ward, W5LUA, will be conducting, using power meters and a spectrum analyzer.

Mini workshop for measuring the loss of WiFi jumpers and pigtails.
Kent Britain, WA5VJB, will be conducting.

'Using the Linksys WRT54G Wireless Router', by John Beadles, N5OOM
'Tracking Microwave Rovers with APRS', by Bob Kmak, K5WO
If time permits, we'll take a look at WiFi signals with a 'real' spectrum analyzer.

So bring your VHF/UHF/1296 radios, wattmeters, and WiFi jumpers, and join us for a fun
event!

73,
Bob Kmak K5WO
NTMS Vice President

[Non-text portions of this message have been removed]

324. Re: [ntms-hsmm] NTMS January Meeting Reminder

Yahoo group: DAWG-HSMM
Date: 2005-01-04 18:16:07 UTC
From: kd5inm
Topic: 323 Message: 324

Hi Bob,

I won't be able to make the meeting, but I would like to know the procedure used to make the measurements that Al Ward W5LUA and Kent Britain WA5VJB will use to do their testing. I have a HP 8569B Spectrum analyzer that is good from 10mhz to 40ghz. I was wondering how I could use this equipment to do some tests on different microwave bands. I was wondering if I could prevail upon someone with NTMS in writing something about practical testing of this equipment using Spectrum analyzer. Is there some info about this on the web?

Thanks in advance, 73' John Hamilton kd5inm
----- Original Message -----
From: bdkmak@...
To: ntms-hsmm@yahoogroups.com
Sent: Tuesday, January 04, 2005 10:29 AM
Subject: [ntms-hsmm] NTMS January Meeting Reminder

North Texas Microwave Society Meeting
January 8, 2005
12 PM to 5 PM
Saint Barnabas Presbyterian Church Meeting Hall
1220 W. Belt Line Road (NE corner of Mimosa and Belt Line Rd)
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'Tracking Microwave Rovers with APRS', by Bob Kmak, K5WO
If time permits, we'll take a look at WiFi signals with a 'real' spectrum analyzer.

So bring your VHF/UHF/1296 radios, wattmeters, and WiFi jumpers, and join us for a fun event!

73,
Bob Kmak K5WO
NTMS Vice President

[Non-text portions of this message have been removed]

Yahoo! Groups Links

a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/

b.. To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

325. kd5zxg: my exprerience with HS1B 500mw 2.45ghz Bidirectional amp.

Yahoo group: DAWG-HSMM
Date: 2005-01-06 18:14:54 UTC
From: onyx665
Topic: 325 Message: 325

I don't have any measurements, only ancedotes.
I'll bring it to the meeting if you want to put
it on the analyzer.

I am currently connected to my local coffe shop.
That was never possible before at this distance.

According to the manual:
Works with B or G
RX gain +12db
TX gain +20db (Switch select 100-200-500mW)

I have no idea if TX gain is under AGC control or not?
Does G spec imply filters with flatter phase delay?

Its mounted on a VERY heavy metal base for its size.
Its either a masive heatsink or some kind of cavity.
I've had the lid off to see inside, but did not try
to separate the PCB from the metal backing plate.

The device sticker sais "see manual for FCC certification"
The manual states that it complies with exposure limits,
but does not clearly say if it is really Part15 compliant.

Cheap... MicroCenter $65 walking out the door price!
CompUSA and Frys also have em, but they want $99.
Also discovered an additional $20 mail in ripoff.
(begins Jan 1, 2005 - expires march 6, 2005)

http://www.microcenter.com/single_product_results.phtml?
product_id=0180166

Then click "popup rebate" and print.

Ken
KD5ZXG
214-284-7718

326. Re: kd5zxg: my exprerience with HS1B 500mw 2.45ghz Bidirectional amp.

Yahoo group: DAWG-HSMM
Date: 2005-01-06 19:02:08 UTC
From: onyx665
Topic: 325 Message: 326

Also worth noting:

Output connector: WiFi RP-SMA male
Local connector: Standard SMA female
2ft WiFi RP-SMA female to Standard SMA male cable.
Generic 2dbi WiFi RP-SMA female ducky.
Wifi RP-TNC female to Wifi RP-SMA male adaptor.
(one piece adaptor, not a jumper or pigtail)

Comes with 12VDC Regulated Switching WallWart.
Does not appear to have any local regulation
inside the amplifier device. I don't know if
its safe to run on 14VDC cigarette power?

KD5ZXG

327. Re: [ntms-hsmm] NTMS January Meeting Reminder

Yahoo group: DAWG-HSMM
Date: 2005-01-06 20:10:09 UTC
From: Bob and Debbie Kmak
Topic: 323 Message: 327

John,

Just back from vacation. Sorry you won't be able to make the meeting.

Great on having a HP8569B. I have never used one but have heard it mentioned enough to know that it's a popular spectrum analyzer. Many spectrum analyzers will allow you to read power levels directly from the screen, although you have to be careful about overloading the input circuits. The HP 141T that I use, for instance, has a maximum input limit of 10 mW, or 10dBm.

The spectrum analyzer that Al Ward is bringing to the NTMS meeting has a maximum input power limit of 1 watt, or 30 dBm. By connecting power attenuators in series with the analyzer (between the rig under test and the SA) he should be able to directly measure power up to 50 watts or so. He will also be bringing a set of wattmeters from his station.

The other way to measure higher power levels with low-power test equipment is to use a directional coupler. The coupler goes between the signal source (like a transmitter or oscillator) and a dummy load. One of the sample ports on the coupler will produce a sample signal that is 20 or 30 dB down from signal source.

So for instance, if you are using a coupler with -30 dB directivity, and you are testing the output of a 5 watt handie-talkie, the signal at the forward direction sample port will be .005 watts, or 5 mW, well within the input restrictions of almost any spectrum analyzer. Check the documentation for your 8569B before risking damage to it!

Measuring cable loss requires a low power signal source at the desired frequency and an accurate means of measuring power.
The basic technique is:
A. Connect signal source directly to power meter or spectrum analyzer and record power level.
B. Insert cable to be tested between signal source and power meter and measure decrease in power level.
C. The difference between the power levels is the cable loss; that is, the amount of the source signal that is being used to warm up the cable :-)

Don't hesitate to contact me if you have any other questions or if anything I've said is unclear. I encourage you to attend future NTMS meetings; guys like Al Ward and Kent Britain know WAY more about all this stuff than I do, and would be happy to answer your questions.

Another thing I would suggest is to subscribe to the WA1MBA microwave reflector. A lot of the guys on that reflector use the 8569B and would be able to provide much more specific info on it's use. To subscribe, go to http://www.wa1mba.org/reflect.htm .

73, Bob K5WO

----- Original Message -----
From: "kd5inm" <kd5inm@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Tuesday, January 04, 2005 12:16 PM
Subject: Re: [ntms-hsmm] NTMS January Meeting Reminder

>
> Hi Bob,
>
> I won't be able to make the meeting, but I would like to know the
procedure used to make the measurements that Al Ward W5LUA and Kent Britain
WA5VJB will use to do their testing. I have a HP 8569B Spectrum analyzer
that is good from 10mhz to 40ghz. I was wondering how I could use this
equipment to do some tests on different microwave bands. I was wondering if
I could prevail upon someone with NTMS in writing something about practical
testing of this equipment using Spectrum analyzer. Is there some info about
this on the web?
>
> Thanks in advance, 73' John Hamilton kd5inm
> ----- Original Message -----
> From: bdkmak@...
> To: ntms-hsmm@yahoogroups.com
> Sent: Tuesday, January 04, 2005 10:29 AM
> Subject: [ntms-hsmm] NTMS January Meeting Reminder
>
>
> North Texas Microwave Society Meeting
> January 8, 2005
> 12 PM to 5 PM
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> 1220 W. Belt Line Road (NE corner of Mimosa and Belt Line Rd)
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> Access to the meeting hall is from the parking lot on the north side of
the building.
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> checking the calibration of commonly available VHF/UHF wattmeters.
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analyzer.
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> Mini workshop for measuring the loss of WiFi jumpers and pigtails.
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> If time permits, we'll take a look at WiFi signals with a 'real'
spectrum analyzer.
>
> So bring your VHF/UHF/1296 radios, wattmeters, and WiFi jumpers, and
join us for a fun event!
>
> 73,
> Bob Kmak K5WO
> NTMS Vice President
>
> [Non-text portions of this message have been removed]
>
>
>
> ---

> Yahoo! Groups Links
>
> a.. To visit your group on the web, go to:
> http://groups.yahoo.com/group/ntms-hsmm/
>
> b.. To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
>
> c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
>
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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328. NTMS meeting - wrt54 demo

Yahoo group: DAWG-HSMM
Date: 2005-01-07 05:33:51 UTC
From: J. Beadles
Topic: 328 Message: 328

Well, it's not going to be much of a formal presentation, but I have been able to get two hops of bridged 802.11b on three WRTs working with a camera at one end. WDS in LAN mode works, apparently.

329. KD5ZXG: Testing HSB1at NTMS

Yahoo group: DAWG-HSMM
Date: 2005-01-09 21:20:06 UTC
From: onyx665
Topic: 329 Message: 329

We discovered today there is an important difference between the white retail box and the silver retail box. The older White box has NO FCC Part15 certification, and it comes with a reverse TNC adaptor to use with Linksys and others.

The newer Silver box comes with a statement that the booster is now FCC Part15 certified with one specific Hawking router. I don't recall the model number of that router. The reverse TNC adaptor is MISSING!!! An empty cutout in the packing foam where it used to be is still present, and a perfect fit for the missing piece.

There is no difference in the FCC sticker on the devices. Both versions simply say "refer to manual". The older manual then sais nothing except that outside a 1ft radius of the included antenna it complies with FCC limits for uncontrolled exposure. That might be OK for licenced Ham use, but no go for Part15.

I think this might be the new Silver box manual?
http://www.hawkingtech.com/images/manual/HSB1%20Manual%2011-30-04.pdf

If you visit the MicroCenter link I gave earlier, there is no way of knowing which version they might ship? I would suggest hitting the shelves in person before all the old white boxes are gone. If you care about obtaining an RP-TNC-F to RP-SMA-M adaptor.

Kent Britain tested the recieve gain and cable losses of my HSB1. The RX gain measured +8.4db @ 2450mhz , the cable loss was -0.4db. Thats -4db less gain than the +12db RX spec given in the manual. I didn't think to ask about the noise figure.

TX gain and power was not tested. Kent's meter was too sensitive. The equipent to do the testing was present, but would have meant tearing down two of the workshops to make it happen. Perhaps next time? I am still interested to know if the 100/200/500 switch is simply by attenuation or true AGC?

I have experimented adding bead chokes on the outside of my coax (between HSB1 and my +16dbi horn) to see if they might be helpful? And confirmed they don't make any difference with my application. The RFI chokes I tried were of type #43 material.

I also paid my club dues, and am no longer just a freeloader.

330. Hawking HSB-1 500mw Signal Booster at Fry's

Yahoo group: DAWG-HSMM
Date: 2005-01-11 22:17:36 UTC
From: Douglas Kilgore
Topic: 330 Message: 330

This is Tuesday afternoon. I just returned from Fry's in Plano and they had a few of the Hawking HSB-1 2.4Ghz 500mw Signal Booster in the white box. These did contain the RP-TNC to RP-SMA adapter. Their price marked on the shelf was $99 - 20 Mail-in rebate = $79. When I showed them the ad from Micro Center selling for $69 - 5 instant rebate - 20 mail-in rebate = $44, Fry's matched the price.

There we a few of the white boxes left on the Fry's shelf. Be sure to read the side panel to see if it contains the RP-TNC to RP-SMA adapter if you need it.

I returned the unit to Micro Center that I purchased last week.

Doug KD5OUG

331. KD5ZXG: CC: DWL900AP+ Firmware and Hacks

Yahoo group: DAWG-HSMM
Date: 2005-01-12 01:57:17 UTC
From: Ken Peter
Topic: 331 Message: 331

From : Acinonyx Jubatus <info@...>
Sent : Tuesday, January 11, 2005 7:02 PM
To : "Ken Peter" <kenpeter@...>
Subject : Re: DWL900AP+ Firmware and Hacks

Hello Ken,

the firmware I made fixes antenna selection. Actaully with official firmwares it doesn't always transmit from the internal antenna. It switches to the opposite antenna from RX to TX. This is not for all firmwares. Some firmwares (like 3.02) work differently.We have seen that above 18dbm (with hardware hack) the distortion is unacceptable. I dont know on which level it has the lowest distortion but I guess that it improves even more under 18dbm.

Bill
http://www.acinonyx.tk/

>I now own 3x DWL900AP+.
>
>The first two are hacked (bypass to extenal antenna only)
>and pin12 of Maxim8220 to ground. Not sure how bad this
>drive level may be distorting the signal? but I use a 2pole
>ceramic comb filter to clean up the trash. http://k5gna.com/
>loss thru the filter is 1.45db in the passband, so I may be
>better off with less boost and eliminate the filter?
>
>I have a third I have not modified yet. And I just discovered
>your firmware. My question: have you fixed the problem with
>antenna transmit select? I found that mine would only TX on
>the internal stripline JPole. I could switch the coax easily, but
>bypassing the PIN diode switch seemed the lowest loss. It
>would be great if I didn't have to hack this circuit anymore.
>
>I am playing with Hawking's HSB1 500mw booster. It kicks
>some serious ***, especially with my horn loaded waveguide.
>I don't need to hack the output power of my DWL anymore.
>I am interested what output level drives the cleanest signal?
>
>More about our mad science projects at:
>North Texas Microwave Society - High Speed MultiMedia
>http://groups.yahoo.com/group/ntms-hsmm/
>
>Ken Peter
>KenPeter@...
>KD5ZXG (Technician Class)

I copy this here, mostly because someone at the meeting asked about separating the input from the output. Seems that might actaully have been the original default behavior for my device.

In my case (bi-directional amp + 1 antenna) I was needing both to appear at the same port and didn't want to hack out the PIN diode switch, the points I have to solder are incredibly small.

332. WRT-54G Test Results

Yahoo group: DAWG-HSMM
Date: 2005-01-12 04:13:42 UTC
From: J. Beadles
Topic: 332 Message: 332

Linksys WRT-54G Test Results □ January 8, 2005□01□11

INTRODUCTION

As a result of having to give a presentation to the recent NTMS meeting, I had occasion to do some more extensive WRT-54G testing. The Linksys WRT-54G is perhaps one of the more popular 802.11b units due to the ability to easily hack the firmware of the unit to provide additional features. This is due to the fact that it uses a Linux based firmware that some enterprising individual managed to find a way to load into the box.

A number of 3rd party firmwares are now available that serve various purposes. Possibly the most popular firmware is produced by Sveasoft (www.sveasoft.com). Sveasoft provides release firmware for free, and prerelease and support for a $20 subscription. The current release firmware is called "Satori". Satori provides software power modification up to 83mw. The current pre-release firmware is called "Alchemy", and is reported to provide power modification up to 250mw.

Satori and Alchemy both provide access to WDS (Wireless Distribution System) bridging and repeating features. WDS bridging occurs on a MAC level, though different settings provide different IP based routing features. I haven't found any documentation on these settings, so we'll use the easiest setting.

TEST CONDITIONS

I used 4 v2.0 WRT-54G units, all loaded with the most recent Sveasoft Satori release. While the system would work with all units having the same SSID (so that the client could roam seamlessly) all units had unique SSIDs for ease of testing. The units were configured as follows:

(SSID) N5OOM-2AP - 192.168.1.2
(SSID) N5OOM-3AP - 192.168.1.3
(SSID) N5OOM-4AP - 192.168.1.4
(SSID) N5OOM-5AP - 192.168.1.5

In addition, a D-link internet web camera was programmed for 192.168.1.30 and connected to N5OOM-5AP with an Ethernet cable.

The test client was a laptop running Windows 2000 with an Orinoco 802.11b card and standard Orinoco client software.

Transmit power on each AP was turned down to about 15mw. Units were separated by no more than 30 feet.

TEST 1 RESULTS

1. All units were programmed to operate on ch 1
2. All units WDS settings were set to type "LAN"
3. The units WDS pages programmed with the adjacent units MAC addresses as follows:

N5OOM-2AP <-> N5OOM-3AP <-> N5OOM-4AP <-> N5OOM-5AP= Camera

The client was wirelessly connected to each AP in turn. While connected to each AP, the client was able to ping all APs with no packet loss. The client was able to connect to and stream video from the web cam.

An additional test was performed at the NTMS meeting, with Doug KD5OUG connecting a Senao access point connected to N5OOM-5AP with a straight Ethernet cable plugged into one of the lan ports on N5OOM-5AP. The Senao AP was configured for ch 6. KD5OUG connected his laptop to the Senao access point and established a Netmeeting session to N5OOM's client connected to N5OOM-2AP. This demonstrated a system with 5 wireless hops.

TEST 2 RESULTS

An additional test was performed due to the results of the 2004 Wild Ride where we attempted to connect 3 bridged hops at a common switch. The system using Linksys WAP-11s failed because the system only allowed one WAP-11 bridge to run at a time when connected to the Ethernet switch.

In this test:

1. N5OOM-2AP and N5OOM-3AP were set to operate on ch 1.
2. N5OOM-4AP and N5OOM-5AP were set to operate on ch 6.
3. N5OOM-3AP and N5OOM-4AP were connected via a straight Ethernet cable plugged into the lan ports of each unit.
4. All units WDS settings were set to type "LAN"
5. The units WDS pages programmed with the adjacent units MAC addresses as follows:

N5OOM-2AP <-> N5OOM-3AP
N5OOM-4AP <-> N5OOM-5AP= Camera

The client was wirelessly connected to each AP in turn. While connected to each AP, the client was able to ping all APs with no packet loss. The client was able to connect to and stream video from the web cam.

NOTES

1. Some users have reported burning up units from raising the xmit power. However, the Sveasoft programmers report running units at full power with no problem. It may be possible to add a heat sink to the RF section; however, the RF section is shielded. The heat sink may be connected to the shield or the shield may be penetrated, though this would need to be tested.

2. The WRT-54G units use a linux firmware, but no free disk space exists in the unit. Any new software needs to be written into the firmware. It will be interesting to see if future firmware includes an NFS feature, allowing connections to external disk space, or a networked USB memory stick.

3. A hack exists to attach up to 2 serial ports to later WRT-54G models. It would be interesting to use this to control radios, or act as an internet gateway for an APRS digipeater.

333. Cheap or free network management software

Yahoo group: DAWG-HSMM
Date: 2005-01-12 15:47:01 UTC
From: J. Beadles
Topic: 333 Message: 333

ZDNet has a free daily email that often includes pointers to some nifty software. Here are a couple of network management packages that look like they'd be useful to us.

PRTG Traffic Grapher (free)
http://www.download.com/PRTG-Traffic-Grapher/3000-2648_4-10344479.html?tag=sptlt&tag=nl.e539

Lantern Manager ($29)
http://www.download.com/Lantern-Manager/3000-2651_4-10352022.html?tag=sptlt&tag=nl.e539

334. KD5ZXG: Anaren 2.4ghz 90 degree hybrid couplers (SMT)

Yahoo group: DAWG-HSMM
Date: 2005-01-13 18:05:04 UTC
From: Ken Peter
Topic: 334 Message: 334

I got 1 strip of 10 hybrid couplers from ebay (surface mount type)
I don't actually need that many. I can spare a few (perhaps 4?).
Free give away to the best suggested use for them. They don't
all have to go to the same place.

They might be good for circular polarization feeds? Splitting and
summing power amps. The guy who sold them to me claimed
they are good up to 60W.

The model is Anaren Xinger 1A1306-3, if anyone can confirm or
deny the specs on this part would have my thanks.

KD5ZXG
kenpeter@...

335. KD5ZXG: found spec sheet.

Yahoo group: DAWG-HSMM
Date: 2005-01-14 06:42:53 UTC
From: onyx665
Topic: 335 Message: 335

http://www.anaren.com/products/product_detail.cfm?prod=18

Again, I can spare up to 4 couplers to anyone locally
who might have an interesting suggested use for them.

336. N5OOM's spring testing direction

Yahoo group: DAWG-HSMM
Date: 2005-01-17 20:15:42 UTC
From: J. Beadles
Topic: 336 Message: 336

I thought I'd take a moment to throw out the direction I'm intending to go for equipment testing this spring. Most of my primary thought will be given to packaging the WRT-54Gs based on the results of the testing that I posted earlier.

1. I am intending to package two WRT-54Gs in Steel Dmarc Tech boxes similar to KC5QHHs units. I have obtained two of the hawking power amplifiers and two mini-circuits splitters from a vendor at Wintercom this last weekend. It is my intent to package these such that they can operate as a WDS bridge with two antennas in different directions but be flexible enough to use as local access points.

2. The other two I want to package in the Rootenna boxes with the integral 19db panel antennas. These would be used as fixed bridge radios for events.

3. In addition, I'm intending to pick up one or two more for hardware experimentation. I'd like to add on the serial port extension and connect them to TNCs. I'm thinking this might be a way to make a cheap standalone APRS Igate or Telpac gateway.

All of these units will use the Sveasoft firmware. I'll upgrade to the Alchemy firmware as soon as it is released. The goal is to have access to the 250mw power adjustment that I've been seeing available.

4. I have more research to do on the WDS bridging. The Sveasoft Satori release

5. As soon as I get some of these things packaged up, I need to go out to the Balloon Festival park in Plano and test out the WDS bridging across actual distances.

6. We discussed last year setting up a contest. To that end, I need to pursue getting a high-gain slotted waveguide antenna made.

Oops, have to go. More later.

337. Wild Ride 2005 on May 21, 2005

Yahoo group: DAWG-HSMM
Date: 2005-01-22 00:48:24 UTC
From: Douglas Kilgore
Topic: 337 Message: 337

I just attended the first planning meeting for the Richardson Medical Center Wild Ride 2005 bike rally. It will be held on Saturday, May 21, 2005 in conjuction with the City of Richardson's WildFlower Festival.

The routes have not been finalized at this time but the start line will again be near the MCI building.

I hope this year we will be sucessful in placing a webcam at each reststop uploading realtime pictures to the internet.

We'll need lots of help so mark you calendars now.

Doug Kilgore KD5OUG

338. WRT54G, serial ports and TNCs

Yahoo group: DAWG-HSMM
Date: 2005-01-23 15:43:38 UTC
From: J. Beadles
Topic: 338 Message: 338

One nifty feature of the WRT54G v2 and later is that the circuit board has solder pads for an 8 pin header strip that allow for 2 serial connections. The output is raw TTL, so you have to add an RS232 level converter board with appropriate connectors to actually get RS232 out. This has been done, and persons have been able to establish serial console connections with the WRT54G.

It occurs to me that this feature has more uses for us than perhaps for the average user. By connecting a TNC to the WRT54G, we might get a standalone box usable as an APRS digipeater / internet gateway or a telpac node for use with local Winlink systems. Thus, we can put a TNC where it is best placed for VHF / UHF work, and bridge a remote internet connection to the TNC using the RF portion of the WRT-54G.

The problem for this is developing code that can run the TNC. The SVEASOFT firmware for the WRT54G does provide the ability into the box, and from there you can use the serial port to connect to the TNC. However, for things like telpac nodes, I assume there would need to be some code running on the WRT54G to gate traffic to the internet. Problem is that the firmware update does not provide useable disk space that we could use to load custom programs as we would ordinarily do. What has to happen is that some enterprising ham with the technical ability to do so would need to write the control code into the WRT-54G firmware.

We need this done anyway. If we use WRT54Gs for ham use, it'd be awfully convenient to have somebody code an ID method into the firmware. If somebody can suggest one, I'll suggest it to the guys at SVEASOFT and see if they are amenable to adding it to the next release.

Directions for the modification are here:

http://www.rwhitby.net/wrt54gs/serial.html

The mod uses a 3rd party AD233BK 233A CTS RTS adapter kit, roughly $20 from Compsys, at:

http://www.compsys1.com/workbench/On_top_of_the_Bench/Max233_Adapter/max233_adapter.html

So - if the WRT54G could be a cheap TNC controller, where do we get a cheap TNC? The TNC-X is a $45 KISS only (but expandable) TNC kit developed by John Hansen W2FS.

http://www.coastalchipworks.com/PICTNC.htm.

339. Re: [ntms-hsmm] Wild Ride 2005 on May 21, 2005

Yahoo group: DAWG-HSMM
Date: 2005-01-24 01:56:05 UTC
From: N5TIM
Topic: 337 Message: 339

Basic info posted.

73, John

At 18:48 1/21/2005, you wrote:

>I just attended the first planning meeting for the Richardson Medical
>Center Wild Ride 2005 bike rally. It will be held on Saturday, May 21,
>2005 in conjuction with the City of Richardson's WildFlower Festival.
>
>The routes have not been finalized at this time but the start line will
>again be near the MCI building.
>
>I hope this year we will be sucessful in placing a webcam at each
>reststop uploading realtime pictures to the internet.
>
>We'll need lots of help so mark you calendars now.
>
>Doug Kilgore KD5OUG
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>Yahoo! Groups Links
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340. (Fwd) [Ham-80211] Aerocomm Modems

Yahoo group: DAWG-HSMM
Date: 2005-01-24 03:03:00 UTC
From: jbeadles@pobox.com
Topic: 340 Message: 340

This off the TAPR 802.11 list...

------- Forwarded message follows -------
From: "Steve Lampereur" <kb9mwr@...>
To: <ham-80211@...>
bscribe>

I saw these in the RF Design magazine. Something a few of us in Green Bay
are seriosuly considering playing with.

Quick summary : 1 watt 900 MHS FHSS, 115.2 kbps $99

The URL for the home page is http://www.aerocomm.com
The complete URL for the pdf spec sheet is:

http://www.aerocomm.com/Docs/Datasheet_ConnexLink.pdf

It appears that we could set up a DHCP sever and handle this like an
ISP. That would be truly cool, make it a TCP/IP network.

341. Access Piont Testing

Yahoo group: DAWG-HSMM
Date: 2005-01-24 03:09:49 UTC
From: Anthony Campbell
Topic: 341 Message: 341

I wanted to give everyone a summary of some testing that I have been doing with various access points and PC client cards. Using Netstumber as an indicator of signal-to-noise (SN) ratio, I ran testing comparing various combinations of these devices. All of this testing was done inside of my pretty typical house over a distance of about 30 ft. Due to the addition of external antennas, some of the configurations would not qualify as Part 15. This included going thru several walls. I tested the following devices:

Access Points
Linksys WAP11 with stock antennas
Linksys WAP11 with external 5 dBi omni antenna via a short jumper
Seneo 2611CB3Plus with stock antenna
Seneo 2611CB3Plus with external 5 dBi omni antenna via a short jumper

PC Client Cards
Orinoco 802.11b
Seneo 2511CBPlus with external 5 dBi omni antenna

Testing
Access Points
Both the WAP11 and 2611 are 802.11b access points. The primary difference being that the 2611 has a rated output of 23 dBm while the WAP11 has a rated output of 15 dBm. The testing showed an average of 11 dB improvement between the two access points. That seems a little higher that projected, but in the reasonable considering the measurement technique. When I repeated the tests but with higher gain antenna, I got an additional 4 dB improvement by using the external 5 dBi antenna.

PC Client Cards
Although the Seneo card that I was using has a higher output power, I did not test this. Using Netstumbler, I was only testing receive SN. The primary difference in the two cards tested is that the Orinoco was utilizing an internal antenna and the Seneo was using an external 5 dBi omni antenna. The test results showed that the Seneo had an average improvement of 7 dB. This is a reasonable result.

Summary
I am sure that is will come as no surprise that in many cases higher power and better antennas are a good thing. I was able to demonstrate a 22 dB improvement in SN from a typical stock system to one that using higher power and better antennas.

I will continue to do further testing. When I receive a WRT54G, I will see how it stacks up against these devices in both stock and modified configuration.

342. Re: [ntms-hsmm] Access Piont Testing

Yahoo group: DAWG-HSMM
Date: 2005-01-24 05:12:52 UTC
From: Douglas Kilgore
Topic: 341 Message: 342

In addition to the difference in output power, the senao/engenius and SMC high power units have a 3 dbm greater sensitivity. That accounts for the improvement.

Doug KD5OUG

Anthony Campbell wrote:
> Testing
> Access Points
> Both the WAP11 and 2611 are 802.11b access points.
> The primary difference being that the 2611 has a rated
> output of 23 dBm while the WAP11 has a rated output of
> 15 dBm. The testing showed an average of 11 dB
> improvement between the two access points. That seems
> a little higher that projected, but in the reasonable
> considering the measurement technique.

343. More WRT54G testing

Yahoo group: DAWG-HSMM
Date: 2005-01-24 06:50:30 UTC
From: J. Beadles
Topic: 343 Message: 343

Whilst thinking about how to invest this paycheck's discretionary cash (do I put my existing units in outdoor cases or what), I found myself at the Sam's club in Addison at Midway and Beltline, looking at some more of the $49 Whttp://groups.yahoo.com/group/ntms-hsmm/postRT54Gs and decided that the best thing I could do right now was to continue to test some more complex bridged network topologies. So now I have a total of 6 WRT54Gs, all with Sveasoft Satori firmware.

The Sveasoft firmware documentation is listed at:
http://docs.sveasoft.com/SV-Guide.html

Also, a set of pics of the WRT54G spectral output at different power settings is available at:
http://explorer.cyberstreet.com/wrt54g/WRT54g-spectraloutput.html

By comparison, the WAP11 spectral output is at:
http://explorer.cyberstreet.com/wap11/WAP11_Spectral_Output.html

AP configurations:

N500M-2AP - 192.168.1.2
N500M-3AP - 192.168.1.3
N500M-4AP - 192.168.1.4
N500M-5AP - 192.168.1.5
N500M-6AP - 192.168.1.6
N500M-7AP - 192.168.1.7

All units tested within 80 feet of each other, though I did spread them around the house to complicate the RF picture a bit.

All of the units were locked into 802.11b mode.

FIRST TEST:

The first test was to bridge all for units in a line so that each AP was bridged to the two on either side of it (except the endpoints). I used my client card to connect to each AP in turn. As I connected to each AP, I pinged the all of the APs using a freeware IP scanning tool called "Angry IP". I was able to ping all units on the chain no matter where I was connected. No particular packet loss was observed. The test is considered successful.

SECOND TEST:

The second test was to try the configuration we had such problems with at the Wild Ride event last year. There we attempted to put three Linksys WAP11 access points on the roof of the Nortel Tower, with each bridged to a different access point on a different

frequency. This would form a "T" configuration.

In this test, APs N500M-5AP, N500M-6AP and N500M-7AP were connected together with ethernet cables plugged into N500M-6AP.

N500M-2AP was bridged to N500M-5AP on ch 1.
N500M-3AP was bridged to N500M-6AP on ch 6.
N500M-4AP was bridged to N500M-7AP on ch 11 (in part 15 mode).

The laptop client was used to connect to each AP in turn. As I connected to each AP, I pinged the all of the APs using a freeware IP scanning tool called "Angry IP". I was able to ping all units on the chain no matter where I was connected. No particular packet loss was observed. The test is considered successful.

SCANNING WITH THE WRT54G

The Sveasoft firmware provides a telnet interface which is enabled through the administration page on the web interface. To login to the box, use "root" as the user id and the admin password. The "wl" command, which has about 150 subcommands, is used to control various aspects of the radio interface.

One of the things you can do is put it into a scanning mode where it will scan and report any APs it hears. To do this, a series of 3 commands is used:

```
wl ap 0
wl scan
wl scanresults
```

This takes the unit out of access point mode to allow it to scan. To put it back in ap mode, use:

```
wl ap 1
```

Doing this on one of my units produced the following result:

```
(none):[~]# wl ap 0
(none):[~]# wl scan
(none):[~]# wl scanresults
SSID: "N500M-5AP"
Mode: Managed RSSI: -60 dBm noise: -91 dBm Channel: 1
BSSID: 00:0F:66:A6:2B:D9 Capability: ESS
Supported Rates: [ 1(b) 2(b) 5.5(b) 11(b) ]

SSID: "N500M-6AP"
Mode: Managed RSSI: -51 dBm noise: -93 dBm Channel: 6
BSSID: 00:0F:66:A6:1E:C8 Capability: ESS
Supported Rates: [ 1(b) 2(b) 5.5(b) 11(b) ]

SSID: "N500M-7AP"
Mode: Managed RSSI: -56 dBm noise: -89 dBm Channel: 11
```

```
BSSID: 00:0F:66:A6:2B:D6 Capability: ESS ShortSlot
Supported Rates: [ 1(b) 2(b) 5.5(b) 11(b) 18 24 36 54 6 9 12 48 ]

SSID: "N5OOM-4AP"
Mode: Managed RSSI: -58 dBm noise: -89 dBm Channel: 11
BSSID: 00:0C:41:D3:EA:03 Capability: ESS
Supported Rates: [ 1(b) 2(b) 5.5(b) 11(b) ]

(none):[~]# wl ap 1
```

344. Re: [ntms-hsmm] More WRT54G testing

Yahoo group: DAWG-HSMM
Date: 2005-01-24 07:33:27 UTC
From: Douglas Kilgore
Topic: 343 Message: 344

I just went to Sams in Addison and bought a WRT54G also. They don't have very many left. Plano store was sold out.

It will be interesting to see what happens when some of them are out of radio range of each other.

Doug KD5OUG

J. Beadles wrote:

>
> Whilst thinking about how to invest this paycheck's discretionary
> cash (do I put my existing units in outdoor cases or what), I found
> myself at the Sam's club in Addison at Midway and Beltline, looking
> at some more of the $49 Whttp://groups.yahoo.com/group/ntms-
> hsmm/postRT54Gs and decided that the best thing I could do right now
> was to continue to test some more complex bridged network topologies.
> So now I have a total of 6 WRT54Gs, all with Sveasoft Satori firmware.
>
> T

345. Re: More WRT54G testing

Yahoo group: DAWG-HSMM
Date: 2005-01-24 13:24:43 UTC
From: J. Beadles
Topic: 343 Message: 345

Good! Now we have to get all this extra gear all battery powered and
wait for a warm Sunday afternoon.

--- In ntms-hsmm@yahoogroups.com, Douglas Kilgore
<douglas.kilgore@c...> wrote:
> I just went to Sams in Addison and bought a WRT54G also. They
don't
> have very many left. Plano store was sold out.
>
> It will be interesting to see what happens when some of them are
out of
> radio range of each other.
>
> Doug KD5OUG
>
> J. Beadles wrote:
>
> >
> > Whilst thinking about how to invest this paycheck's discretionary
> > cash (do I put my existing units in outdoor cases or what), I
found
> > myself at the Sam's club in Addison at Midway and Beltline,
looking
> > at some more of the $49 Whttp://groups.yahoo.com/group/ntms-
> > hsmm/postRT54Gs and decided that the best thing I could do right
now
> > was to continue to test some more complex bridged network
topologies.
> > So now I have a total of 6 WRT54Gs, all with Sveasoft Satori
firmware.
> >
> > T

346. Re: [ntms-hsmm] Re: More WRT54G testing

Yahoo group: DAWG-HSMM
Date: 2005-01-24 18:16:00 UTC
From: Douglas Kilgore
Topic: 343 Message: 346

I have 4 12V 7AH gel cel batteries. They are older batteries but they should have enough life left for 2-3 hours of testing.

I planned to make them RACES standardized with the Anderson PowerPole connectors. I will make adapters to go from RACES connection to coaxial plugs to fit the WRT54G.

I guess we should plan to use Power-over-Ethernet. That means I need to also make 4 coaxial to coaxial jumpers to work at the top end.

Doug KD5OUG

J. Beadles wrote:

>
> Good! Now we have to get all this extra gear all battery powered and
> wait for a warm Sunday afternoon.
> >

347. Car to Car wifi - what's next?

Yahoo group: DAWG-HSMM
Date: 2005-01-24 20:00:40 UTC
From: N5TIM
Topic: 343 Message: 347

http://www.theregister.co.uk/2004/12/21/car_to_car_wifi/

348. Re: More WRT54G testing

Yahoo group: DAWG-HSMM
Date: 2005-01-24 23:48:26 UTC
From: J. Beadles
Topic: 343 Message: 348

--- In ntms-hsmm@yahoogroups.com, Douglas Kilgore
<douglas.kilgore@c...> wrote:
> I have 4 12V 7AH gel cel batteries. They are older batteries but
they
> should have enough life left for 2-3 hours of testing.
>
> I planned to make them RACES standardized with the Anderson
PowerPole
> connectors. I will make adapters to go from RACES connection to
> coaxial plugs to fit the WRT54G.
>
> I guess we should plan to use Power-over-Ethernet. That means I
need to
> also make 4 coaxial to coaxial jumpers to work at the top end.

Good! While I do have some of those APs hard cased, I'm probably going to slap something together for the others for testing. I'm likely to make some cheap powerpole extension cords rather than do much more POE stuff just now. This is all getting expensive.

349. Re: [ntms-hsmm] Car to Car wifi - what's next?

Yahoo group: DAWG-HSMM
Date: 2005-01-25 01:13:05 UTC
From: jbeadles@pobox.com
Topic: 343 Message: 349

Shoot. There goes my shot at a patent.

On 24 Jan 2005 at 14:00, N5TIM wrote:

>
> http://www.theregister.co.uk/2004/12/21/car_to_car_wifi/
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> Yahoo! Groups Links
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350. Re: [ntms-hsmm] Re: More WRT54G testing

Yahoo group: DAWG-HSMM
Date: 2005-01-25 01:21:08 UTC
From: Anthony Campbell
Topic: 343 Message: 350

So, what is the power input of the WRT54G? 5 or 12
VDC? Also, have you measured the power requirements.

Tony
W5ADC

--- "J. Beadles" <jbeadles@...> wrote:

>
> --- In ntms-hsmm@yahoogroups.com, Douglas Kilgore
> <douglas.kilgore@c...> wrote:
> > I have 4 12V 7AH gel cel batteries. They are
> older batteries but
> they
> > should have enough life left for 2-3 hours of
> testing.
> >
> > I planned to make them RACES standardized with the
> Anderson
> PowerPole
> > connectors. I will make adapters to go from
> RACES connection to
> > coaxial plugs to fit the WRT54G.
> >
> > I guess we should plan to use Power-over-Ethernet.
> That means I
> need to
> > also make 4 coaxial to coaxial jumpers to work at
> the top end.
>
> Good! While I do have some of those APs hard cased,
> I'm probably
> going to slap something together for the others for
> testing. I'm
> likely to make some cheap powerpole extension cords
> rather than do
> much more POE stuff just now. This is all getting
> expensive.
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351. Re: [ntms-hsmm] Re: More WRT54G testing

Yahoo group: DAWG-HSMM
Date: 2005-01-25 03:06:41 UTC
From: jbeadles@pobox.com
Topic: 343 Message: 351

The v2s and I think the v1.1s are 12v. The v1s are 5v. We do need
to measure power input to it and test out that DC to DC converter in
the box.

On 24 Jan 2005 at 17:21, Anthony Campbell wrote:

>
> So, what is the power input of the WRT54G? 5 or 12
> VDC? Also, have you measured the power requirements.
>
> Tony
> W5ADC
>
> --- "J. Beadles" <jbeadles@...> wrote:
>
> >
> > --- In ntms-hsmm@yahoogroups.com, Douglas Kilgore
> > <douglas.kilgore@c...> wrote:
> > > I have 4 12V 7AH gel cel batteries. They are
> > older batteries but
> > they
> > > should have enough life left for 2-3 hours of
> > testing.
> > >
> > > I planned to make them RACES standardized with the
> > Anderson
> > PowerPole
> > > connectors. I will make adapters to go from
> > RACES connection to
> > > coaxial plugs to fit the WRT54G.
> > >
> > > I guess we should plan to use Power-over-Ethernet.
> > That means I
> > need to
> > > also make 4 coaxial to coaxial jumpers to work at
> > the top end.
> >
> > Good! While I do have some of those APs hard cased,
> > I'm probably
> > going to slap something together for the others for
> > testing. I'm
> > likely to make some cheap powerpole extension cords
> > rather than do
> > much more POE stuff just now. This is all getting
> > expensive.

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352. DC-DC converters by VICOR - Work well for PoE WiFi Applications.

Yahoo group: DAWG-HSMM
Date: 2005-01-25 16:05:17 UTC
From: Randall Dunning
Topic: 352 Message: 352

Hello,

I have successfully used VICOR converters successfully to convert DC voltages in my WiFi equipment. Personally, I prefer 24V or 48V for PoE applications since you can send more power over dinky little wires at the higher voltages. I also have some of the 36V VICOR converters because they work from 22V all the way to 40V which is great for 24 volt applications (a good 24 volt system runs from 22.5 to 27 volts. In addition, most people don't realize the 36V converters can be used at 24 so they suffer from low demand and sport a proportionally low price. I have bought 36V -> 5V and 36V -> 12V converters for as little as $5 US a pop! You can take gel cells and make 24 or 48 volt systems that will exhibit less voltage drop over those teenie-weenie CAT5e wires.

12V to 5V converter:
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=4660&item=3869749678&rd=1&ssPageName=WDVW

24V to 5V Converter (I might buy this one as I live in a 24V world):
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=4660&item=3869749602&rd=1&ssPageName=WDVW#ebayphotohosting

Cheerio,

RD

"Evil is powerless if the good are unafraid."
-Ronald Reagan

[Non-text portions of this message have been removed]

353. Re: [ntms-hsmm] DC-DC converters by VICOR - Work well for PoE WiFi Applications.

Yahoo group: DAWG-HSMM
Date: 2005-01-25 16:33:54 UTC
From: dubose@texas.net
Topic: 352 Message: 353

Personally I"ve been sending up 117 VAC up #16-22 wire up towers, on roofs, etc. with no problem and using small117 VAC powersupplies and wallwarts to get the desired voltage/power level(s) needed.

Walt

Quoting Randall Dunning <kc5qhh@...>:
>
> Hello,
>
>
>
> I have successfully used VICOR converters successfully to convert
>
> DC voltages in my WiFi equipment. Personally, I prefer 24V or 48V
>
> for PoE applications since you can send more power over dinky
>
> little wires at the higher voltages. I also have some of the 36V VICOR
>
> converters because they work from 22V all the way to 40V which is
>
> great for 24 volt applications (a good 24 volt system runs from 22.5 to
>
> 27 volts. In addition, most people don't realize the 36V converters
>
> can be used at 24 so they suffer from low demand and sport a proportionally
>
> low price. I have bought 36V -> 5V and 36V -> 12V converters for as
>
> little as $5 US a pop! You can take gel cells and make 24 or 48 volt
>
> systems that will exhibit less voltage drop over those teenie-weenie
>
> CAT5e wires.
>
>
>
> 12V to 5V converter:
>
> http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=4660&item=3869749678&
>
> rd=1&ssPageName=WDVW
>

>
>
> 24V to 5V Converter (I might buy this one as I live in a 24V world):
>
> http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=4660&item=3869749602&
>
> rd=1&ssPageName=WDVW#ebayphotohosting
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> Cheerio,
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> "Evil is powerless if the good are unafraid."
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> -Ronald Reagan
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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>
> To visit your group on the web, go to:
> http://groups.yahoo.com/group/ntms-hsmm/
>
> To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

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354. Re: DC-DC converters by VICOR - Work well for PoE WiFi Applications.

Yahoo group: DAWG-HSMM
Date: 2005-01-25 17:39:19 UTC
From: J. Beadles
Topic: 352 Message: 354

We've certainly done that, running 12ga cable 120ft up the tower for the Wild Ride last year. From a field deployment standpoint, POE is awfully convenient, though. We are working on doing field deployments at these public service events, and frankly, carrying around all these boxes of stuff gets old after a while. So I'm up for shrinking down my eqpt as much as possible, and using POE achieves that.

Now for the next step... I'd like to build a standard POE kit that would maybe let you take two gel-cells, wire them to the injector for 24v upstream, and then pick off as many different regulated voltages at the top as I wanted, thus letting me power multiple bridge radios, switches, cameras, etc.

I did a bit of research on the DC-DC converter chip that is used in the WRT-54G, and the specs say that it will accept an input voltage up to 45v. It is really a very simple circuit. What I'd like to do is to have a custom PCB cut that has the two RJ-45 connectors and a space to build that DC-DC converter, customizable for whatever voltage I wanted. Also, I'd include the ability to let the power pass through the next jack if desired so that I could string several of these in series, pulling off different voltages.

I talked to Kent Britain WA4VJB, who makes those PCB antennas we've all seen. He says that the PDC for the kit is very doable, and economical in quantity.

--- In ntms-hsmm@yahoogroups.com, dubose@t... wrote:
> Personally I"ve been sending up 117 VAC up #16-22 wire up towers, on roofs,
> etc. with no problem and using small117 VAC powersupplies and wallwarts to get
> the desired voltage/power level(s) needed.
>
> Walt
>
> Quoting Randall Dunning <kc5qhh@q...>:
> >
> > Hello,
> >
> >
> >
> > I have successfully used VICOR converters successfully to convert
> >
> > DC voltages in my WiFi equipment. Personally, I prefer 24V or 48V
> >

> > for PoE applications since you can send more power over dinky
> >
> > little wires at the higher voltages. I also have some of the 36V
VICOR
> >
> > converters because they work from 22V all the way to 40V which is
> >
> > great for 24 volt applications (a good 24 volt system runs from
22.5 to
> >
> > 27 volts. In addition, most people don't realize the 36V
converters
> >
> > can be used at 24 so they suffer from low demand and sport a
proportionally
> >
> > low price. I have bought 36V -> 5V and 36V -> 12V converters for
as
> >
> > little as $5 US a pop! You can take gel cells and make 24 or 48
volt
> >
> > systems that will exhibit less voltage drop over those teenie-
weenie
> >
> > CAT5e wires.
> >
> >
> >
> > 12V to 5V converter:
> >
> > http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&category=4660&item=3869749678&
> >
> > rd=1&ssPageName=WDVW
> >
> >
> >
> > 24V to 5V Converter (I might buy this one as I live in a 24V
world):
> >
> > http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&category=4660&item=3869749602&
> >
> > rd=1&ssPageName=WDVW#ebayphotohosting
> >
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> >
> > Cheerio,
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> > RD
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> >
> > "Evil is powerless if the good are unafraid."
> >
> > -Ronald Reagan
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> > [Non-text portions of this message have been removed]
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> > Yahoo! Groups Links
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> > To visit your group on the web, go to:
> > http://groups.yahoo.com/group/ntms-hsmm/
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> > To unsubscribe from this group, send an email to:
> > ntms-hsmm-unsubscribe@yahoogroups.com
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> > Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.
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355. Re: [ntms-hsmm] Re: More WRT54G testing

Yahoo group: DAWG-HSMM
Date: 2005-01-25 18:14:09 UTC
From: Ron Cole
Topic: 343 Message: 355

If anyone is interested. I was in the Sams Grapevine
last night, they had 8 of the WRT-54G-B routers and
quite a few of the GS models.

Ron

=====
Ron

Do you Yahoo!?
Yahoo! Mail - Easier than ever with enhanced search. Learn more.
http://info.mail.yahoo.com/mail_250

356. Re: [ntms-hsmm] Re: POE & DC-DC

Yahoo group: DAWG-HSMM
Date: 2005-01-25 18:35:14 UTC
From: Ron Cole
Topic: 352 Message: 356

Not wanting to invent something new I like standards
if available.

http://www.commsdesign.com/printableArticle/;jsessionid=MJFW0LRHSX1LEQSNDBCCKH0CJUMEKJVN?articleID=52601375

Type B Power looks easy enought.

I just don't use the Protector Chip but a 500ma Fuse
seems to do the job for me.

=====
Ron

Do you Yahoo!?
The all-new My Yahoo! - What will yours do?
http://my.yahoo.com

357. Re: [ntms-hsmm] Re: DC-DC converters by VICOR - Work well for PoE WiFi Applications.

Yahoo group: DAWG-HSMM
Date: 2005-01-25 18:40:19 UTC
From: Anthony Campbell
Topic: 352 Message: 357

This is a very interesting discussion. It appears as
if the IEEE standard for POE is -48 VDC. So, to me it
seems like we should either standardize on this or on
12 VDC since that is the most common battery voltage.
I would really like to stay away from AC line voltage.
I really hate getting shocked.

Tony
W5ADC

--- "J. Beadles" <jbeadles@...> wrote:

>
> We've certainly done that, running 12ga cable 120ft
> up the tower for
> the Wild Ride last year. From a field deployment
> standpoint, POE is
> awfully convenient, though. We are working on doing
> field
> deployments at these public service events, and
> frankly, carrying
> around all these boxes of stuff gets old after a
> while. So I'm up
> for shrinking down my eqpt as much as possible, and
> using POE
> achieves that.
>
> Now for the next step... I'd like to build a
> standard POE kit that
> would maybe let you take two gel-cells, wire them to
> the injector for
> 24v upstream, and then pick off as many different
> regulated voltages
> at the top as I wanted, thus letting me power
> multiple bridge radios,
> switches, cameras, etc.
>
> I did a bit of research on the DC-DC converter chip
> that is used in
> the WRT-54G, and the specs say that it will accept
> an input voltage
> up to 45v. It is really a very simple circuit.
> What I'd like to do
> is to have a custom PCB cut that has the two RJ-45

> connectors and a
> space to build that DC-DC converter, customizable
> for whatever
> voltage I wanted. Also, I'd include the ability to
> let the power
> pass through the next jack if desired so that I
> could string several
> of these in series, pulling off different voltages.
>
> I talked to Kent Britain WA4VJB, who makes those PCB
> antennas we've
> all seen. He says that the PDC for the kit is very
> doable, and
> economical in quantity.
>
> --- In ntms-hsmm@yahoogroups.com, dubose@t... wrote:
> > Personally I"ve been sending up 117 VAC up #16-22
> wire up towers,
> on roofs,
> > etc. with no problem and using small117 VAC
> powersupplies and
> wallwarts to get
> > the desired voltage/power level(s) needed.
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> > Walt
> >
> > Quoting Randall Dunning <kc5qhh@q...>:
> > >
> > > Hello,
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> > >
> > > I have successfully used VICOR converters
> successfully to convert
> > >
> > > DC voltages in my WiFi equipment. Personally, I
> prefer 24V or 48V
> > >
> > > for PoE applications since you can send more
> power over dinky
> > >
> > > little wires at the higher voltages. I also have
> some of the 36V
> VICOR
> > >
> > > converters because they work from 22V all the
> way to 40V which is
> > >
> > > great for 24 volt applications (a good 24 volt
> system runs from

> 22.5 to
> > >
> > > 27 volts. In addition, most people don't realize
> the 36V
> converters
> > >
> > > can be used at 24 so they suffer from low demand
> and sport a
> proportionally
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> > > low price. I have bought 36V -> 5V and 36V ->
> 12V converters for
> as
> > >
> > > little as $5 US a pop! You can take gel cells
> and make 24 or 48
> volt
> > >
> > > systems that will exhibit less voltage drop over
> those teenie-
> weenie
> > >
> > > CAT5e wires.
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> > >
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> > > 12V to 5V converter:
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> ViewItem&category=4660&item=3869749678&
> > >
> > > rd=1&ssPageName=WDVW
> > >
> > >
> > >
> > > 24V to 5V Converter (I might buy this one as I
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> world):
> > >
> > > http://cgi.ebay.com/ws/eBayISAPI.dll?
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> > >
> > > rd=1&ssPageName=WDVW#ebayphotohosting
> > >
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> > >
> > > Cheerio,
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> > > RD
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> > > "Evil is powerless if the good are unafraid."
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> > > -Ronald Reagan
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> > > [Non-text portions of this message have been
> removed]
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> > > Yahoo! Groups Links
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> > > To visit your group on the web, go to:
> > > http://groups.yahoo.com/group/ntms-hsmm/
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> > > To unsubscribe from this group, send an email
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> > >
> > > Your use of Yahoo! Groups is subject to the
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358. Re: [ntms-hsmm] More WRT54G testing

Yahoo group: DAWG-HSMM
Date: 2005-01-25 19:32:40 UTC
From: Rusty Haddock
Topic: 343 Message: 358

Douglas Kilgore wrote:
>
>I just went to Sams in Addison and bought a WRT54G also. They don't
>have very many left. Plano store was sold out.

Which store in Plano, Doug? There's two: one just north of Bush on Coit
Rd, and the other at Spring Creek at Central Distressway.

Since I work a mile or so way from the Sams in Addison, I picked up one
there last night. There were three left... :-)

-Rusty-
--
_____ Rusty Haddock = KD4WLZ = rusty@...
|\/ o \ o **Out yonder in the Van Alstyne (TX) Metropolitan Area**
| (-< O o Microsoft is to software what
|/__V__/ McDonalds is to gourmet cooking

359. Re: More WRT54G testing

Yahoo group: DAWG-HSMM
Date: 2005-01-25 22:55:03 UTC
From: J. Beadles
Topic: 343 Message: 359

I'll add the current status:

Sams at Spring Creek & Central - Out
Sams at Coit & 190 - Out
Sams at Beltline & Midway still had a few left.
Sams at Forest & Greenville - Unknown
Sams at NW Hwy near Frys - Unknown

If anybody finds any left at any of the othe Sams, please post where you got them. I know of at least one person who doesn't have a Sams membership so if somebody wants one at that price, I'd be willing to run and get one for them.

Incidentally, I got a report from Jonathan Senneti N5VX that he picked up at Circuit City that was a v2.2. Reviewing Sveasoft's web site, the v2.2 uses a different ethernet controller chip from the v2.0 and requires the Alchemy firmware which has not been publically released yet. You can get it, you just have to pay Sveasoft $20 for the subscription to get it.

--- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@f...> wrote:
> Douglas Kilgore wrote:
> >
> >I just went to Sams in Addison and bought a WRT54G also. They don't
> >have very many left. Plano store was sold out.
>
> Which store in Plano, Doug? There's two: one just north of Bush on Coit
> Rd, and the other at Spring Creek at Central Distressway.
>
> Since I work a mile or so way from the Sams in Addison, I picked up one
> there last night. There were three left... :-)
>
> -Rusty-
> --
> _____ Rusty Haddock = KD4WLZ = rusty@f...
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> |/__V__/ McDonalds is to gourmet cooking

360. Re: POE & DC-DC

Yahoo group: DAWG-HSMM
Date: 2005-01-25 22:59:29 UTC
From: J. Beadles
Topic: 352 Message: 360

Affirm. I think that is the pinout that Demarc Tech uses in their POE device. Incidentally, I ran across this company Microcom (store.microcom.us) that has some REALLY GOOD PRICES on POE devices and certain pigtails (like $10 to Demarc's $18), but they want a $100 min order. I'm considering doing a group purchase if anybody else wants any of them.

--- In ntms-hsmm@yahoogroups.com, Ron Cole <rdcole@y...> wrote:
> Not wanting to invent something new I like standards
> if available.
>
>
http://www.commsdesign.com/printableArticle/;jsessionid=MJFW0LRHSX1LEQ
SNDBCCKH0CJUMEKJVN?articleID=52601375
>
> Type B Power looks easy enought.
>
> I just don't use the Protector Chip but a 500ma Fuse
> seems to do the job for me.
>
>
>
> =====
> Ron
>
>
>
> _____
> Do you Yahoo!?
> The all-new My Yahoo! - What will yours do?
> http://my.yahoo.com

361. Weatherproof Ethernet

Yahoo group: DAWG-HSMM
Date: 2005-01-26 03:47:01 UTC
From: radiorandr
Topic: 361 Message: 361

OK, so what type of connector are we going to use as a standard? I have looked around and found a number of different types of RJ45 connectors with weatherproof housing and non look compatible.

Tony
W5ADC

362. RE: [ntms-hsmm] Re: More WRT54G testing

Yahoo group: DAWG-HSMM
Date: 2005-01-26 04:12:19 UTC
From: Frank Roesch
Topic: 343 Message: 362

Well I joined SAMs and got the last WRT54G from the SAMs at North
Garland and George Bush.

Frank
K5FER

-----Original Message-----
From: J. Beadles [mailto:jbeadles@...]
Sent: Tuesday, January 25, 2005 4:55 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: More WRT54G testing

I'll add the current status:

Sams at Spring Creek & Central - Out
Sams at Coit & 190 - Out
Sams at Beltline & Midway still had a few left.
Sams at Forest & Greenville - Unknown
Sams at NW Hwy near Frys - Unknown

If anybody finds any left at any of the othe Sams, please post where
you got them. I know of at least one person who doesn't have a Sams
membership so if somebody wants one at that price, I'd be willing to
run and get one for them.

Incidentally, I got a report from Jonathan Senneti N5VX that he
picked up at Circuit City that was a v2.2. Reviewing Sveasoft's web
site, the v2.2 uses a different ethernet controller chip from the
v2.0 and requires the Alchemy firmware which has not been publically
released yet. You can get it, you just have to pay Sveasoft $20 for
the subscription to get it.

--- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@f...> wrote:
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> >
> >I just went to Sams in Addison and bought a WRT54G also. They
don't
> >have very many left. Plano store was sold out.
>
> Which store in Plano, Doug? There's two: one just north of Bush on
Coit
> Rd, and the other at Spring Creek at Central Distressway.
>
> Since I work a mile or so way from the Sams in Addison, I picked up
one
> there last night. There were three left... :-)
>

> -Rusty-
> --
> _____ Rusty Haddock = KD4WLZ = rusty@f...
> |\/ o \ o **Out yonder in the Van Alstyne (TX) Metropolitan
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Yahoo! Groups Links
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http://groups.yahoo.com/group/ntms-hsmm/

* To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com
<mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
<http://docs.yahoo.com/info/terms/> Service.

[Non-text portions of this message have been removed]

363. Re: [ntms-hsmm] Re: DC-DC converters by VICOR - Work well for PoE WiFi Applications.

Yahoo group: DAWG-HSMM
Date: 2005-01-26 04:37:31 UTC
From: Douglas Kilgore
Topic: 352 Message: 363

I think we should standardize on power at the bottom of the tower. Everyone is building different boxes and some will have power amps.

A 12 V gel cel is considered discharged at 10.5 volts. A charge is being applied, the voltage might be as high as 14.4 wolts on the battery terminals. This is the type of battery we use for radios. I think we should design our systems around that. Use an Anderson PowerPole for the 12 volt connection for RACES standardization.

The voltage drop in the Cat5 wire will depend upon current draw and length of the wire. Although Ethernet can work about 300 ft on Cat5, I think we could compromise on a standardized length of 150 ft. That would be a practical length for most installations.

For me, I'm interested in the 5/15V P-o-E Kit for $16.95.
http://store.microcom.us/picat5.html
I plan to use two devices at the top - one 12V and 5V. Combine that with a cheap off-the-shelf 12VDC to 110VAC converter and I can use a gel cel or an automobile for power.

Doug KD5OUG

Anthony Campbell wrote:

> This is a very interesting discussion. It appears as
> if the IEEE standard for POE is -48 VDC. So, to me it
> seems like we should either standardize on this or on
> 12 VDC since that is the most common battery voltage.
> I would really like to stay away from AC line voltage.
> I really hate getting shocked.
>
> Tony
> W5ADC
>

364. Re: DC-DC converters by VICOR - Work well for PoE WiFi Applications.

Yahoo group: DAWG-HSMM
Date: 2005-01-26 05:19:00 UTC
From: J. Beadles
Topic: 352 Message: 364

Randy and I were talking about this standardization the other day.
Figured we ought to standardize on N connectors mounted to the
exterior of any case.

--- In ntms-hsmm@yahoogroups.com, Douglas Kilgore
<douglas.kilgore@c...> wrote:
> I think we should standardize on power at the bottom of the tower.
> Everyone is building different boxes and some will have power amps.
>
> A 12 V gel cel is considered discharged at 10.5 volts. A charge is
> being applied, the voltage might be as high as 14.4 wolts on the
battery
> terminals. This is the type of battery we use for radios. I think
we
> should design our systems around that. Use an Anderson PowerPole
for
> the 12 volt connection for RACES standardization.

365. Updated "Intro to HSMM" presentation

Yahoo group: DAWG-HSMM
Date: 2005-01-26 05:20:47 UTC
From: J. Beadles
Topic: 365 Message: 365

All,

I've updated the "Intro to HSMM" presentation that I'll be giving to the Irving ARC on Thursday the 27th.

http://www.n5oom.org/hsmm/

366. Re: [ntms-hsmm] Re: DC-DC converters by VICOR - Work well for PoE WiFi Applications.

Yahoo group: DAWG-HSMM
Date: 2005-01-26 15:31:53 UTC
From: Douglas Kilgore
Topic: 352 Message: 366

I aggree on N. But should they be Male or Female?

I recommend Female.

Doug

J. Beadles wrote:

>
> Randy and I were talking about this standardization the other day.
> Figured we ought to standardize on N connectors mounted to the
> exterior of any case.
>

367. Re: DC-DC converters by VICOR - Work well for PoE WiFi Applications.

Yahoo group: DAWG-HSMM
Date: 2005-01-26 18:40:51 UTC
From: J. Beadles
Topic: 352 Message: 367

Female, definitely. That causes a problem on those cases we have, doesn't it? On account of there not really being a good place to put them.

--- In ntms-hsmm@yahoogroups.com, Douglas Kilgore <douglas.kilgore@c...> wrote:
> I aggree on N. But should they be Male or Female?
>
> I recommend Female.
>
> Doug
>
> J. Beadles wrote:
>
> >
> > Randy and I were talking about this standardization the other day.
> > Figured we ought to standardize on N connectors mounted to the
> > exterior of any case.
> >

368. Re: More WRT54G Sightings

Yahoo group: DAWG-HSMM
Date: 2005-01-26 19:50:09 UTC
From: Randall Dunning
Topic: 343 Message: 368

I saw a WRT54G at Radio Shack at Buckingham and Garland Rd in Garland over the weekend.

RD - KC5QHH

369. Re: DC-DC converters by VICOR - Work well for PoE WiFi Applications.

Yahoo group: DAWG-HSMM
Date: 2005-01-26 20:18:16 UTC
From: Randall Dunning
Topic: 352 Message: 369

I fail to see the difficulty. What am I missing? I have put N-F chassis mount connectors in the Rain Bird controller box for my WET-11, 2 N-F chassis mount connectors in the Home Desperate sprinkler box, and two of the same in a DemarcTech small box.(BTW, I also have the wondrous little Greenlee D chassis punch that is just right for making pretty holes for N-F connectors.)

As for the different types of water-resistant RJ-45 connectors, I am using the RJ-Lynxx connectors. These appear to have the maximum versatility and are available from numerous sources. They also have the virtue of accepting a cap and have field installable cable termination kits which I have successfully used for a bout of CAT-5 building last field day. Here are the sources I have used:

http://store.yahoo.com/awc-direct/etcon.html (best prices)
http://www.bb-elec.com/product_multi_family.asp?multifamilyid=13

Amphanol has a competing product available at:
http://metrix.net/metrix/products/parts
(This is even pricier than the RJ-Lynxx connectors!)

One other benefit of these connectors is the plug housing screws onto the socket which should make a stronger field connection as well as providing water and dust resistance.

Cheers,

RD - KC5QHH

"It does not do to leave a live dragon out of your calculations, if you live near him." ~ J.R.R. Tolkein

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
> Female, definitely. That causes a problem on those cases we have,
> doesn't it? On account of there not really being a good place to
put
> them.

370. Re: DC-DC converters by VICOR - Work well for PoE WiFi Applications.

Yahoo group: DAWG-HSMM
Date: 2005-01-27 00:38:31 UTC
From: J. Beadles
Topic: 352 Message: 370

--- In ntms-hsmm@yahoogroups.com, "Randall Dunning" <kc5qhh@q...>
wrote:
>
> I fail to see the difficulty. What am I missing? I have put N-F
> chassis mount connectors in the Rain Bird controller box for my WET-
> 11, 2 N-F chassis mount connectors in the Home Desperate sprinkler
> box, and two of the same in a DemarcTech small box.(BTW, I also
have
> the wondrous little Greenlee D chassis punch that is just right for
> making pretty holes for N-F connectors.)

These other sprinkler cases have kind of a curved bottom and those 3
holes already punched in inconvenient places. I'll have to look and
see if they can practically be punched.

371. Re: [ntms-hsmm] Re: DC-DC converters by VICOR - Work well for PoE WiFi Applications.

Yahoo group: DAWG-HSMM
Date: 2005-01-27 01:35:22 UTC
From: Douglas Kilgore
Topic: 352 Message: 371

Glad to know you have a Greenlee punch. What size hole does it punch?
Will these Pacific Wireless 20mm RJ45 waterproof connectors fit?
http://www.rangeextender.com/s.nl/ck.QzJkAniJALTxipki/vid.QzJkAnaJAOGlJTvH/cktime.3959/sc.9/category.30/.f

Doug KD5OUG

Randall Dunning wrote:

>
> I fail to see the difficulty. What am I missing? I have put N-F
> chassis mount connectors in the Rain Bird controller box for my WET-
> 11, 2 N-F chassis mount connectors in the Home Desperate sprinkler
> box, and two of the same in a DemarcTech small box.(BTW, I also have
> the wondrous little Greenlee D chassis punch that is just right for
> making pretty holes for N-F connectors.)
>
> As for the different types of water-resistant RJ-45 connectors, I am
> using the RJ-Lynxx connectors. These appear to have the maximum
> versatility and are available from numerous sources. They also have
> the virtue of accepting a cap and have field installable cable
> termination kits which I have successfully used for a bout of CAT-5
> building last field day. Here are the sources I have used:
>
> http://store.yahoo.com/awc-direct/etcon.html (best prices)
> http://www.bb-elec.com/product_multi_family.asp?multifamilyid=13
>
> Amphanol has a competing product available at:
> http://metrix.net/metrix/products/parts
> (This is even pricier than the RJ-Lynxx connectors!)
>
> One other benefit of these connectors is the plug housing screws onto
> the socket which should make a stronger field connection as well as
> providing water and dust resistance.
>
> Cheers,
>
> RD - KC5QHH
>
> "It does not do to leave a live dragon out of your
> calculations, if you live near him." ~ J.R.R. Tolkein
>
> --- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>

>>Female, definitely. That causes a problem on those cases we have,
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372. Re: [ntms-hsmm] Re: DC-DC converters by VICOR - Work well for PoE WiFi Applications.

Yahoo group: DAWG-HSMM
Date: 2005-01-27 01:45:57 UTC
From: Anthony Campbell
Topic: 352 Message: 372

I just looked at one of the boxes that I have and it
looks like the connector will fit just fine.

Tony
W5ADC

--- "J. Beadles" <jbeadles@...> wrote:

>
> --- In ntms-hsmm@yahoogroups.com, "Randall Dunning"
> <kc5qhh@q...>
> wrote:
> >
> > I fail to see the difficulty. What am I missing? I
> have put N-F
> > chassis mount connectors in the Rain Bird
> controller box for my WET-
> > 11, 2 N-F chassis mount connectors in the Home
> Desperate sprinkler
> > box, and two of the same in a DemarcTech small
> box.(BTW, I also
> have
> > the wondrous little Greenlee D chassis punch that
> is just right for
> > making pretty holes for N-F connectors.)
>
> These other sprinkler cases have kind of a curved
> bottom and those 3
> holes already punched in inconvenient places. I'll
> have to look and
> see if they can practically be punched.
>
>
>
>

373. Hawking RP-TNC to female RP-SMA adapter

Yahoo group: DAWG-HSMM
Date: 2005-01-27 03:19:28 UTC
From: J. Beadles
Topic: 373 Message: 373

Just an fyi, if anybody runs into this problem -

I was looking at getting some of the Rootenna cases. These are basically outdoor equipment cases with either a 14db or 19db antenna built into the box. Problem is that you have to specify the connector you are going to use. While I'm using the WRTs that have RP-TNCs, I may also optionally be using the little Hawking power amp that Ken described earlier, and they come with a RP-SMA connector on them. So, I need an adapter that will go from one to the other.

If you get the right power amp, you get an adapter, but I got one that didn't. Hawking sells a teeny RP-TNC to female RP-SMA adapter, part number H-ACST as a separate part. A google search found me some for about $10.

374. Hawking RP-TNC to female RP-SMA adapter

Yahoo group: DAWG-HSMM
Date: 2005-01-27 05:33:34 UTC
From: J. Beadles
Topic: 373 Message: 374

Just an fyi, if anybody runs into this problem -

I was looking at getting some of the Rootenna cases. These are basically outdoor equipment cases with either a 14db or 19db antenna built into the box. Problem is that you have to specify the connector you are going to use. While I'm using the WRTs that have RP-TNCs, I may also optionally be using the little Hawking power amp that Ken described earlier, and they come with a RP-SMA connector on them. So, I need an adapter that will go from one to the other.

If you get the right power amp, you get an adapter, but I got one that didn't. Hawking sells a teeny RP-TNC to female RP-SMA adapter, part number H-ACST as a separate part. A google search found me some for about $10.

375. Re: [ntms-hsmm] Hawking RP-TNC to female RP-SMA adapter

Yahoo group: DAWG-HSMM
Date: 2005-01-27 16:08:45 UTC
From: Keith Berry
Topic: 373 Message: 375

Here is a place that sells the adapters in a 2-pack
for $11.90.
http://www.sharperconcepts.net/product_info.php?products_id=120&osCsid=658741879dda8304ce1cd7bf5f129e30

Regards,
Keith KE?FV

--- "J. Beadles" <jbeadles@...> wrote:

Just an fyi, if anybody runs into this problem -

I was looking at getting some of the Rootenna cases.
These are
basically outdoor equipment cases with either a 14db
or 19db antenna
built into the box. Problem is that you have to
specify the
connector you are going to use. While I'm using the
WRTs that have
RP-TNCs, I may also optionally be using the little
Hawking power amp
that Ken described earlier, and they come with a
RP-SMA connector on
them. So, I need an adapter that will go from one to
the other.

If you get the right power amp, you get an adapter,
but I got one
that didn't. Hawking sells a teeny RP-TNC to female
RP-SMA adapter,
part number H-ACST as a separate part. A google
search found me some
for about $10.

Yahoo! Groups Links

To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/

To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo!
Terms of Service.

376. Of Holes and Housings

Yahoo group: DAWG-HSMM
Date: 2005-01-27 16:38:10 UTC
From: Randall Dunning
Topic: 376 Message: 376

Set your mind at ease John, The RealTime sprinkler timer case (available from Home Desperate for $6.00 last time I looked) is not so curved that it makes adding new holes a problem. Further the three prepunched holes are near the center leaving a great deal of real estate on the bottom for custom holes (so long as you take care not to impinge on the standoffs inside). With mine, I took out the fragile little rubber grommets and used a stock cable gland for additional CAT5 cables (camera cabling, for example). Next I plugged the remaining hole(s) with caploc plugs available at any real hardware store. I frequent True Value at Arapaho & Jupiter and Handyman at Buckingham & Garland Rd. Then I used a chassis punch to cut the holes for the RJ-Lynxx wx resistant RJ45 ports. BTW, caploc plugs come in many sizes and are an excellent way to get a water resistant bug proof seal without the muss, fuss, and mess of electrical tape.

As for Doug's "holey" question, I inherited a rather extensive set of Greenlee chassis punches. I am sure there is a punch that will work with the Pac-Wireless gland. John has been agitating to have some kind of hole punch party at my expense for some time now. I can bring neat hole-making devices from 5/16" to 2.25" including a couple of different D shaped punches should such an event come to pass. And, NO, they are not for loan as they have had a tendency to go missing for extended periods of time when I have been so foolish as to let them out of my sight. That said, I would be happy to support a hole puncy party.

Cheerio,

RD - KC5QHH

"TOP SECRET, DESTROY BEFORE READING"
My Favorite Security Caveat

[Non-text portions of this message have been removed]

377. Interesting hardware - Ovis universal AP

Yahoo group: DAWG-HSMM
Date: 2005-01-27 19:08:22 UTC
From: J. Beadles
Topic: 377 Message: 377

http://www.tomsnetworking.com/News_story_more_942.php

Don't bother with a google search for this unit yet unless you can read asian...

378. Re: Hawking RP-TNC to female RP-SMA adapter

Yahoo group: DAWG-HSMM
Date: 2005-01-27 19:10:43 UTC
From: J. Beadles
Topic: 373 Message: 378

--- In ntms-hsmm@yahoogroups.com, Keith Berry <berryko@s...> wrote:
> Here is a place that sells the adapters in a 2-pack
> for $11.90.
> http://www.sharperconcepts.net/product_info.php?
products_id=120&osCsid=658741879dda8304ce1cd7bf5f129e30

Also, useful, but not the same thing. What I got was closer to
this...

http://www.sharperconcepts.net/product_info.php?
products_id=240&osCsid=658741879\\

379. Re: [ntms-hsmm] Re: Hawking RP-TNC to female RP-SMA adapter

Yahoo group: DAWG-HSMM
Date: 2005-01-27 19:46:33 UTC
From: Keith Berry
Topic: 373 Message: 379

Ah, you needed the male connnector. You can get this
part
http://www.sharperconcepts.net/product_info.php?cPath=37_49&products_id=119
and stack with the other. Loss should be about the
same or less than a pigtail, and you get two sets for
$24 total.

Regards,
Keith KE?FV

--- "J. Beadles" <jbeadles@...> wrote:

--- In ntms-hsmm@yahoogroups.com, Keith Berry
<berryko@s...> wrote:
> Here is a place that sells the adapters in a 2-pack
> for $11.90.
> http://www.sharperconcepts.net/product_info.php?
products_id=120&osCsid=658741879dda8304ce1cd7bf5f129e30

Also, useful, but not the same thing. What I got was
closer to
this...

http://www.sharperconcepts.net/product_info.php?
products_id=240&osCsid=658741879\\

Yahoo! Groups Links

To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/

To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo!
Terms of Service.

380. Mast Mounting Bracket

Yahoo group: DAWG-HSMM
Date: 2005-01-27 20:05:47 UTC
From: Douglas Kilgore
Topic: 373 Message: 380

Ahhh! A $7.95 mounting bracket. Just what I need to attach the $10.00
Home Depot lawn controller box to the mast. Plus shipping

http://www.sharperconcepts.net/product_info.php?products_id=144

Doug

J. Beadles wrote:

>
> --- In ntms-hsmm@yahoogroups.com, Keith Berry <berryko@s...> wrote:
>
>>Here is a place that sells the adapters in a 2-pack
>>for $11.90.
>>http://www.sharperconcepts.net/product_info.php?
>
> products_id=120&osCsid=658741879dda8304ce1cd7bf5f129e30
>
> Also, useful, but not the same thing. What I got was closer to
> this...
>
> http://www.sharperconcepts.net/product_info.php?
> products_id=240&osCsid=658741879\\
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> Yahoo! Groups Links
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381. Re: [ntms-hsmm] Mast Mounting Bracket

Yahoo group: DAWG-HSMM
Date: 2005-01-27 22:07:14 UTC
From: Keith Berry
Topic: 373 Message: 381

I am sorry I found this site. I may go broke!! ;-)

Keith

--- Douglas Kilgore <douglas.kilgore@...>
wrote:

Ahhh! A $7.95 mounting bracket. Just what I need to
attach the $10.00
Home Depot lawn controller box to the mast. Plus
shipping

http://www.sharperconcepts.net/product_info.php?products_id=144

Doug

J. Beadles wrote:

>
> --- In ntms-hsmm@yahoogroups.com, Keith Berry
<berryko@s...> wrote:
>
>>Here is a place that sells the adapters in a 2-pack
>>for $11.90.
>>http://www.sharperconcepts.net/product_info.php?
>
>
products_id=120&osCsid=658741879dda8304ce1cd7bf5f129e30
>
> Also, useful, but not the same thing. What I got
was closer to
> this...
>
> http://www.sharperconcepts.net/product_info.php?
> products_id=240&osCsid=658741879\\
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> Yahoo! Groups Links
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Yahoo! Groups Links

To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/

To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo!
Terms of Service.

382. Re: gel cel batteries

Yahoo group: DAWG-HSMM
Date: 2005-01-27 23:48:16 UTC
From: Ken Peter
Topic: 343 Message: 382

```
>From: Douglas Kilgore <douglas.kilgore@...>
>I have 4 12V 7AH gel cel batteries. They are older batteries but they
>should have enough life left for 2-3 hours of testing.

Could just mount a pair of binding posts on the side of a 12V UPS.
Have charging circuit and 110V inverter as optional conveniences!
```

383. KD5ZXG: Anaren Xinger 90 deg Hybrid

Yahoo group: DAWG-HSMM
Date: 2005-01-28 01:01:42 UTC
From: Ken Peter
Topic: 343 Message: 383

I ruined my first two trying unsucessfully to connectorize them. The corners don't like stress at all and break off easily. The flats are very tough and withstood rough treatment no problem.

Would have been much easier if I had a local source for sma pcb connectors, but I only had RG58 style BNC which required more than a small amount of "modification" to solder to the flats, and there were problems with my iron not being quite hot enough.

My third try appears to be a success, 3 BNC connectors and a pair of "101" (100 ohm) chip resistors at the fourth corner. That would be the isolated port... Does this discussion group allow photographs to be attatched?

I can move forward now with circular polarity experiments, or try making another and see if I can sum a pair of the Hawking boosters. I could also just sum them in free space, but I lose the output 90deg hybrid's "perfect" return loss... As the loss is wasted instead of reflected, I don't know that buys any real benefits.

I wonder how consistant the phase shift (both TX and RX) are between Hawking boosters? If they are way off, then any attempt to sum them blindly is hopeless.

Also found some circulators. The insertion loss ans isolation db's are better than most pin diode SPDT switches I see in 2.4ghz bidirectional amp schematics, They don't need any switch logic. Is it then possible to sepatarely amplify and/or attenuate the TX and RX.

Ken
KD5ZXG

384. RE: WAT54g

Yahoo group: DAWG-HSMM
Date: 2005-01-28 01:44:19 UTC
From: Frank Roesch
Topic: 343 Message: 384

Anyone notice noise from the WRT52g on the 2 meter band ? Seems the
router side is generating this you can hear it real good on 146.66.
A spectrum analyzer should show this.

Frank
K5FER

[Non-text portions of this message have been removed]

385. KD5ZXG: Hawking (100mw input max) + Senao 200mw?

Yahoo group: DAWG-HSMM
Date: 2005-01-28 04:14:27 UTC
From: Ken Peter
Topic: 343 Message: 385

Hawking's HSB1 amplifier isn't expecting to see full 200mw at the input.
My 200mw tests have not caused my amp to burn up or anything yet...
I have definately been abusing it that way for quite some while now.
I don't think this is the way it is supposed to be.

I was using my SMC 200mw PCMCIA card (Prism 2.5), and i noticed an
immediate improvement when I switched to a low power (+14~18dbm)
device of another brand. D-Link's 108mbs gaming bridge (Atheros chip).
I guess this may be due to reduced TX input distortion???

Do the Senao access points allow you to reduce the output power?

I still do not know the function of the switch on the Hawking booster.
Is it smart ACG limited or merely step attentuation??? I find no similar
reliability benefit by reducing my TX power switch to a lower setting.
Where in the TX circuit is the selected agc/attenuation happening?

http://www.hawkingtech.com/images/datasheet/HSB1%20Datasheet%201220LR.pdf
I see the factory spec sheet states maximum input power at 20dbm.
That would be equal to 100mw??? But is this the optimal input power?
How does one determine the best input power for clean full strength
output? And is the optimum value different depending on the position
of the TX power select switch?

386. KD5ZXG: intel wireless articles

Yahoo group: DAWG-HSMM
Date: 2005-01-28 05:38:25 UTC
From: Ken Peter
Topic: 343 Message: 386

http://www.intel.com/technology/itj/archive_new.htm

Great technical stuff on WiMax and WiFi.

387. NTMS site update

Yahoo group: DAWG-HSMM
Date: 2005-01-26 14:34:18 UTC
From: Joe Jurecka
Topic: 387 Message: 387

Hi all,
I've integrated an SQL database and PHP scripting on the NTMS web site.
What this means is that I can largely automate a number of tasks.

So first, on the HSMM side, please do send any upcoming events to
webmaster@... which you would like to see advertised. Provide when
you'd like to see the notice pop up (day granularity) and when the event is
along with a short description and a URL for more information.

I'm hoping to have a database of users so that, at least eventually, we can
do searches of microwave enthusiasts and find out which others have similar
interest that you do.

If you have other ideas, just let me know and I'll see what can be done.
Anything which helps members enjoy the hobby more is fair game.

73,
Joe - N5PYK
NTMS webmaster

388. RE: [ntms-hsmm] NTMS site update

Yahoo group: DAWG-HSMM
Date: 2005-01-28 13:09:24 UTC
From: John Champa
Topic: 387 Message: 388

Joe,

Can you post a copy of our recent report to the League's Board (attached)?

73, John - K8OCL

>From: "Joe Jurecka" <n5pyk@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: <ntms-hsmm@yahoogroups.com>
>Subject: [ntms-hsmm] NTMS site update
>Date: Wed, 26 Jan 2005 08:34:18 -0600
>

[Non-text portions of this message have been removed]

389. Re: [ntms-hsmm] KD5ZXG: Hawking (100mw input max) + Senao 200mw?

Yahoo group: DAWG-HSMM
Date: 2005-01-28 14:24:10 UTC
From: jbeadles@pobox.com
Topic: 343 Message: 389

Ken,

Darn fine research. Question, have you measured the DC current drain
from the amp? I'm thinking that for POE purposes, we probably ought
to get familiar with the actual power requirements for these things
so we will know what we can get with battery operation.

On 27 Jan 2005 at 22:14, Ken Peter wrote:

>
> Hawking's HSB1 amplifier isn't expecting to see full 200mw at the input.
> My 200mw tests have not caused my amp to burn up or anything yet...
> I have definately been abusing it that way for quite some while now.
> I don't think this is the way it is supposed to be.
>
> I was using my SMC 200mw PCMCIA card (Prism 2.5), and i noticed an
> immediate improvement when I switched to a low power (+14~18dbm)
> device of another brand. D-Link's 108mbs gaming bridge (Atheros chip).
> I guess this may be due to reduced TX input distortion???
>
> Do the Senao access points allow you to reduce the output power?
>
> I still do not know the function of the switch on the Hawking booster.
> Is it smart ACG limited or merely step attentuation??? I find no similar
> reliability benefit by reducing my TX power switch to a lower setting.
> Where in the TX circuit is the selected agc/attenuation happening?
>
> http://www.hawkingtech.com/images/datasheet/HSB1%20Datasheet%201220LR.pdf
> I see the factory spec sheet states maximum input power at 20dbm.
> That would be equal to 100mw??? But is this the optimal input power?
> How does one determine the best input power for clean full strength
> output? And is the optimum value different depending on the position
> of the TX power select switch?
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> Yahoo! Groups Links
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390. RE: [ntms-hsmm] Digest Number 138

Yahoo group: DAWG-HSMM
Date: 2005-01-28 14:44:34 UTC
From: Randall Dunning
Topic: 390 Message: 390

WRT54G noisy on 146.66? Figures! Why does it always have to be on the output of the Garland Repeater? The Comcast modems in the alleys are also noisy on 146.66 as are some other routers and star hubs. =8-@

I need to see now my WRT54G in the Demarc Tech NMEA aluminum box does.

RD - KC5QHH

"TOP SECRET, DESTROY BEFORE READING"
A Favorite Security Caveat

[Non-text portions of this message have been removed]

391. Re: [ntms-hsmm] Digest Number 138

Yahoo group: DAWG-HSMM
Date: 2005-01-28 16:06:11 UTC
From: Rusty Haddock
Topic: 390 Message: 391

Randall Dunning wrote:
>
>WRT54G noisy on 146.66? Figures! Why does it always
>have to be on the output of the Garland Repeater? The
>Comcast modems in the alleys are also noisy on 146.66
>as are some other routers and star hubs. =8-@

Interesting. I have a version 1.0 box that does not give me a bit of trouble on Garland's rptr. Tuned the HT scanner to 146.660 and moved it near the WRT54G, even unplugged it to see if anything changed and it didn't. I'm sure there's a slew of spurs out there but I can't tell with all these computers running around the place. :-)

My wife used to have a CD-ROM drive that would wipe out TI's repeater on 145.430 three houses up and down the street. She got a new CD-ROM REAL QUICK(!) which, I'm sure, blocked out some other repeater but not the one I wanted to listen to.

>I need to see now my WRT54G in the Demarc Tech NMEA
>aluminum box does.

Why would you try to pick up the Garland repeater inside an aluminum box??? :-D

-Rusty-
--
_____ Rusty Haddock = KD4WLZ = rusty@...
|\/ o \ o **Out yonder in the Van Alstyne (TX) Metropolitan Area**
| (-< O o Microsoft is to software what
|/__V__/ McDonalds is to gourmet cooking

392. RE: [ntms-hsmm] KD5ZXG: Anaren Xinger 90 deg Hybrid

Yahoo group: DAWG-HSMM
Date: 2005-01-28 18:32:23 UTC
From: John Champa
Topic: 343 Message: 392

Ken,

Please keep us posted on your experiments and results using circular polarity. If you have read the new HSMM portion of the 2005 Handbook (Multimedia and Spread Spectrum), you will note that it is an area in which we stressed much more R&D by hams is needed.

Thanks,
John - K8OCL

>From: "Ken Peter" <kenpeter@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: ntms-hsmm@yahoogroups.com
>Subject: [ntms-hsmm] KD5ZXG: Anaren Xinger 90 deg Hybrid
>Date: Thu, 27 Jan 2005 19:01:42 -0600
>

[Non-text portions of this message have been removed]

393. Serial ports on the WRT54G

Yahoo group: DAWG-HSMM
Date: 2005-01-29 06:13:37 UTC
From: J. Beadles
Topic: 393 Message: 393

Success! Using the instructions found at:

http://www.rwhitby.net/wrt54gs/serial.html

And an AD232DK dual serial port adapter from:

http://www.compsys1.com/workbench/On_top_of_the_Bench/Max233_Adapter/max233_adapter.html

I successfully got a serial connection to work on one of my WRTs.
Next goal is to hook up a TNC to it and see what happens.

394. DLINK DWL900+ AP.

Yahoo group: DAWG-HSMM
Date: 2005-01-29 06:19:12 UTC
From: James Markstrom Kb9mma
Topic: 394 Message: 394

http://www.kb9mma.com/HSMM-RACINE/net/DWL_900_mod.doc

For those who are using the DLINK DWL900+ AP.

I choose Polesoft Lockspam to fight spam, and you?
http://www.polesoft.com/refer.html

I choose Polesoft Lockspam to fight spam, and you?
http://www.polesoft.com/refer.html

395. KD5ZXG: RE: DLINK DWL900_AP+ diversity antenna hack.

Yahoo group: DAWG-HSMM
Date: 2005-01-29 08:52:18 UTC
From: Ken Peter
Topic: 394 Message: 395

If your board is of any "Cx" revision, you can put the iron away.
Firmware that corrects the antenna select bug is allready available.
And opens all hidden power and channel options too.
http://www.acinonyx.tk/
http://acinonyx.tooshort.org/

Too late for my first pair, hacked out diversity PIN diode switch
Ground pin12 of the Maxim IC (max power with bad distortion).
The recommended clean output level is no more than +17dbm.

N5OOM recently gave me a virgin DWL900-AP+, and that one
only requires flash update with the Acinonyx 3.06 firmware.

The links above no longer seem to be working. You can ask
Acinonyx himself. He reads and writes english just fine, but
you might have to translate Greek to navigate Athens wireless
forum. http://www.awmn.gr/forum/

If you want the 3.06 Acinonyx fimware, I could email it. I also
found an "official" D-Link version 3.10 fimware from one of the
non-US support site FTPs (was it Germany?). I have no idea
what may be different from the latest official US version 3.07.

Ken
KD5ZXG

396. 900+ ap

Yahoo group: DAWG-HSMM
Date: 2005-01-29 17:41:00 UTC
From: wiraca Packet bbs
Topic: 396 Message: 396

James Markstrom

A.P.R.S. KB9MMA-2 MOBILE

Packet Node KB9MMA-7;WIRACA/145.610 MHz 1200

Packet Node KB9MMA-7;WIRACA/145.530 MHz 1200

Packet Node KB9MMA-7;WIRACA/446.100 MHz 9600

Packet Node KB9MMA-7;WIRACA/446.125 MHz 1200

Packet Sysop KB9MMA;WIMMA

kb9mma@...

http://www.kb9mma.com

The box said; "Requires Windows 95 or better." So I installed LINUX"

I don't know if the firmware works
But this mod does.
And you don't risk screwing up the device.
The internal j pole is not needed.

Has anyone loaded this hacked firmware?

Message: 7
Date: Sat, 29 Jan 2005 00:19:12 -0600
From: "James Markstrom Kb9mma " <wiraca@...>
Subject: DLINK DWL900+ AP.

http://www.kb9mma.com/HSMM-RACINE/net/DWL_900_mod.doc

For those who are using the DLINK DWL900+ AP.

Message: 8
Date: Sat, 29 Jan 2005 02:52:18 -0600
From: "Ken Peter" <kenpeter@...>
Subject: KD5ZXG: RE: DLINK DWL900_AP+ diversity antenna hack.

If your board is of any "Cx" revision, you can put the iron away.
Firmware that corrects the antenna select bug is allready available. And
opens all hidden power and channel options too. http://www.acinonyx.tk/
http://acinonyx.tooshort.org/

Too late for my first pair, hacked out diversity PIN diode switch Ground
pin12 of the Maxim IC (max power with bad distortion). The recommended
clean output level is no more than +17dbm.

N5OOM recently gave me a virgin DWL900-AP+, and that one
only requires flash update with the Acinonyx 3.06 firmware.

The links above no longer seem to be working. You can ask Acinonyx
himself. He reads and writes english just fine, but you might have to
translate Greek to navigate Athens wireless forum.
http://www.awmn.gr/forum/

If you want the 3.06 Acinonyx fimware, I could email it. I also found an
"official" D-Link version 3.10 fimware from one of the non-US support
site FTPs (was it Germany?). I have no idea what may be different from
the latest official US version 3.07.

Ken
KD5ZXG

Yahoo! Groups Links

I choose Polesoft Lockspam to fight spam, and you?
http://www.polesoft.com/refer.html

397. Re: [ntms-hsmm] Re: DC-DC converters by VICOR - Work well for PoE WiFi Applicati

Yahoo group: DAWG-HSMM
Date: 2005-01-30 02:25:39 UTC
From: John Champa
Topic: 352 Message: 397

Yes, the WG supports that approach, too.

73, John - K8OCL

>From: Douglas Kilgore <douglas.kilgore@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: ntms-hsmm@yahoogroups.com
>Subject: Re: [ntms-hsmm] Re: DC-DC converters by VICOR - Work well for PoE
>WiFi Applications.
>Date: Wed, 26 Jan 2005 09:31:53 -0600
>

[Non-text portions of this message have been removed]

398. Re: Serial ports on the WRT54G

Yahoo group: DAWG-HSMM
Date: 2005-01-30 06:06:22 UTC
From: J. Beadles
Topic: 393 Message: 398

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
> Success! Using the instructions found at:
>
> http://www.rwhitby.net/wrt54gs/serial.html
>
> And an AD232DK dual serial port adapter from:
>
>
http://www.compsys1.com/workbench/On_top_of_the_Bench/Max233_Adapter/m
> ax233_adapter.html
>
> I successfully got a serial connection to work on one of my WRTs.
> Next goal is to hook up a TNC to it and see what happens.

After doing a little more research on this today, I have some more detail. It seems that Sveasoft's Satori firmware release removed the unix stty command which is used to set the comm port parameters. The older release included this command, and some forum messages indicate that it is possible for you to build your own version of the release that has stty included in it.

So, to access the comm ports, a serial device would need to be configured for 115200 8 n 1. On the first comm port, the WRT provides a serial console upon boot, so we get to see the entire linux boot process.

Another problem is that there is no terminal program for actually getting any data off the other serial port. These issues make connecting a TNC problematic unless we can get somebody to research building these features into the firmware.

Another option is Linksys' NSLU2 device. This is network file server device that provides a means for turning USB hard drives and memory sticks into network file services. The NSLU2 also runs a linux OS and has been the subject of substantial 3rd party firmware development. It appears that there are ways to do things like plug USB cameras & such, and the device can run a webserver that provides for PHP programming. Also, a build of Perl exists for it. This device also has a connector for a serial port that can be extended outside the case and therefore might be an option for a TNC connection.

http://www.nslu2-linux.org/

399. Another WRT-54G sighting

Yahoo group: DAWG-HSMM
Date: 2005-01-30 06:08:02 UTC
From: J. Beadles
Topic: 399 Message: 399

The Sams in Dallas at Park Lane and Greenville had at least 4 and possibly more, still going for $49. They are hidden behind the speedbooster units, so you'd have to dig them out.

400. RP connectors at Fry's

Yahoo group: DAWG-HSMM
Date: 2005-01-30 22:54:49 UTC
From: J. Beadles
Topic: 400 Message: 400

In a surprise move, Fry's has started carrying some RP-TNC and RP-SMA to N adapters. They are in the parts section with the other cable connectors, wire and stuff, not in the networking section.

401. RP Connectors

Yahoo group: DAWG-HSMM
Date: 2005-01-31 20:10:18 UTC
From: Joe Jurecka
Topic: 97 Message: 401

Another source is off-the-shelf on Plano Rd. I saw RP TNC for RG-58 I
believe.
Joe

----- Original Message -----
From: <ntms-hsmm@yahoogroups.com>
To: <ntms-hsmm@yahoogroups.com>
Sent: Monday, January 31, 2005 3:54 AM
Subject: [ntms-hsmm] Digest Number 141

>
> There is 1 message in this issue.
>
> Topics in this digest:
>
> 1. RP connectors at Fry's
> From: "J. Beadles" <jbeadles@...>
>
>
> _____
> _____
>
> Message: 1
> Date: Sun, 30 Jan 2005 22:54:49 -0000
> From: "J. Beadles" <jbeadles@...>
> Subject: RP connectors at Fry's
>
>
> In a surprise move, Fry's has started carrying some RP-TNC and RP-SMA
> to N adapters. They are in the parts section with the other cable
> connectors, wire and stuff, not in the networking section.
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> Yahoo! Groups Links
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402. WRT54G development project

Yahoo group: DAWG-HSMM
Date: 2005-02-01 16:36:52 UTC
From: J. Beadles
Topic: 402 Message: 402

Do we have anybody on the list who might be willing to work on some firmware changes for the WRT54G? To do this successfully, you'd need to be able to compile linux distributions, maybe do some C coding.

Features that I can see that we would need would include:

1. Adding an APRS digipeater / internet gateway module that would use a KISS based TNC connected to one of the serial ports.

2. Adding a Telpac gateway that that would use a KISS based TNC connected to one of the serial ports. This would be particularly useable for local 2meter packet based Winlink systems.

3. Add a timer based radio power control. This is based on a thought that if we run these out in the field on battery power, it'd be good to allow the radio portion of the system automatically turned on and off when nobody is there.

4. Add an application that would allow data coming from the serial port to be streamed to a remote IP. This could be used to stream telemetry to a remote location

5. Add a weather station to APRS packet program

I now have one unit with two attached serial ports, but can't do anything with them yet. I'd be happy to lend it to whoever would be willing to take on this task.

403. Re: [ntms-hsmm] WRT54G development project

Yahoo group: DAWG-HSMM
Date: 2005-02-01 18:49:04 UTC
From: Bob and Debbie Kmak
Topic: 402 Message: 403

John,

I think I'd be interested in this but would like to poke around with the sources to get an idea of the size of the project first. Is the full source code available from the Sveasoft site?

Bob

----- Original Message -----
From: "J. Beadles" <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Tuesday, February 01, 2005 10:36 AM
Subject: [ntms-hsmm] WRT54G development project

>
>
> Do we have anybody on the list who might be willing to work on some
> firmware changes for the WRT54G? To do this successfully, you'd
> need to be able to compile linux distributions, maybe do some C
> coding.
>
> Features that I can see that we would need would include:
>
> 1. Adding an APRS digipeater / internet gateway module that would
> use a KISS based TNC connected to one of the serial ports.
>
> 2. Adding a Telpac gateway that that would use a KISS based TNC
> connected to one of the serial ports. This would be particularly
> useable for local 2meter packet based Winlink systems.
>
> 3. Add a timer based radio power control. This is based on a
> thought that if we run these out in the field on battery power, it'd
> be good to allow the radio portion of the system automatically turned
> on and off when nobody is there.
>
> 4. Add an application that would allow data coming from the serial
> port to be streamed to a remote IP. This could be used to stream
> telemetry to a remote location
>
> 5. Add a weather station to APRS packet program
>
> I now have one unit with two attached serial ports, but can't do
> anything with them yet. I'd be happy to lend it to whoever would be
> willing to take on this task.
>
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> Yahoo! Groups Links
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404. [Fwd: Re: WRT54G development project]

Yahoo group: DAWG-HSMM
Date: 2005-02-01 19:42:50 UTC
From: Douglas Kilgore
Topic: 404 Message: 404

```
-------- Original Message --------
Subject: Re: WRT54G development project
Date: Tue, 01 Feb 2005 19:25:49 -0000
From: wb8wka <wb8wka@...>
To: ntms-hsmm-owner@yahoogroups.com

Hi John:

Yes, I am interested. I was kicking the tires on this for a while, I
wanted to add a GPS to the device (using GPSD). What distro are you
using? So far, been playing with the SVEASOFT one, quite interested
in their up and coming Talsman release, as it is supposed to have
adaptive mesh routing in it.

Do you already have the serial adapter board made up? I haven't do
that yet, actually I haven't even compiled the build yet, just
uploaded the new SVEASOFT images and they seem to work. So any advice
here is helpful. I have a Debian (simply mepis) system setup here.

Regards,

Jeff wb8wka

p.s. John Champa forwarded me your note and this is how I found out
about your group

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
> Do we have anybody on the list who might be willing to work on some
> firmware changes for the WRT54G? To do this successfully, you'd
> need to be able to compile linux distributions, maybe do some C
> coding.
>
> Features that I can see that we would need would include:
>
> 1. Adding an APRS digipeater / internet gateway module that would
> use a KISS based TNC connected to one of the serial ports.
>
> 2. Adding a Telpac gateway that that would use a KISS based TNC
> connected to one of the serial ports. This would be particularly
> useable for local 2meter packet based Winlink systems.
>
> 3. Add a timer based radio power control. This is based on a
> thought that if we run these out in the field on battery power,
it'd
> be good to allow the radio portion of the system automatically
turned
```

> on and off when nobody is there.
>
> 4. Add an application that would allow data coming from the serial
> port to be streamed to a remote IP. This could be used to stream
> telemetry to a remote location
>
> 5. Add a weather station to APRS packet program
>
> I now have one unit with two attached serial ports, but can't do
> anything with them yet. I'd be happy to lend it to whoever would be
> willing to take on this task.

405. [Fwd: Re: WRT54G development project]

Yahoo group: DAWG-HSMM
Date: 2005-02-01 20:07:05 UTC
From: J. Beadles
Topic: 404 Message: 405

--- In ntms-hsmm@yahoogroups.com, Douglas Kilgore
<douglas.kilgore@c...> wrote:
>
> -------- Original Message --------
> Subject: Re: WRT54G development project
> Date: Tue, 01 Feb 2005 19:25:49 -0000
> From: wb8wka <wb8wka@y...>
>
> Yes, I am interested. I was kicking the tires on this for a while, I
> wanted to add a GPS to the device (using GPSD). What distro are you
> using? So far, been playing with the SVEASOFT one, quite interested
> in their up and coming Talsman release, as it is supposed to have
> adaptive mesh routing in it.

Howdy! So far I've been using the Sveasoft Satori release and
looking at shelling out for the subscription to get Alchemy.
Talisman looks awfully nifty from an HSMM standpoint. My thinking is
that if we can build up the modules, maybe we can integrate a ham
specific release into Talisman. Or I could be blowing smoke. In any
case, having the ham specific features would be worthwhile.

I agree about the GPS, I was thinking it'd make a good NTP and
differential correction server but forgot to add those into my
particular mail.

> Do you already have the serial adapter board made up? I haven't do
> that yet, actually I haven't even compiled the build yet, just
> uploaded the new SVEASOFT images and they seem to work. So any
advice
> here is helpful. I have a Debian (simply mepis) system setup here.

I do, not of my own design, but I used the Compsys AD233DK board,
which seems to work fine. Only issue is that there are no flow
control lines.

http://www.compsys1.com/workbench/On_top_of_the_Bench/Max233_Adapter/m
ax233_adapter.html

When booted with Satori loaded, one of the serial ports is a system
console. I read through the Sveasoft forums, and another person had
to do a custom compile to add stty so that he could control the
serial port parameters. Stty apparently was in the previous release
but was dropped from Satori. I suspect that the v1.1s did not have
the serial port connector so they pulled it from the package not
thinking that serial ports would be added later. And now you know
pretty much what I know.

> p.s. John Champa forwarded me your note and this is how I found out
> about your group

Outstanding! Welcome to the group! And thanks to Doug and John for getting you hooked up with us.

406. Re: WRT54G development project

Yahoo group: DAWG-HSMM
Date: 2005-02-01 20:12:59 UTC
From: J. Beadles
Topic: 402 Message: 406

Bob,

Howdy! The current release version is. I think it is actually stored
at www.linksysinfo.com.

--- In ntms-hsmm@yahoogroups.com, "Bob and Debbie Kmak" <bdkmak@c...>
wrote:
> John,
>
> I think I'd be interested in this but would like to poke around
with the
> sources to get an idea of the size of the project first. Is the
full source
> code available from the Sveasoft site?
>
> Bob
>
>
> ----- Original Message -----
> From: "J. Beadles" <jbeadles@p...>
> >
> >
> > Do we have anybody on the list who might be willing to work on
some
> > firmware changes for the WRT54G? To do this successfully, you'd
> > need to be able to compile linux distributions, maybe do some C
> > coding.
> >
> > Features that I can see that we would need would include:
> >
> > 1. Adding an APRS digipeater / internet gateway module that would
> > use a KISS based TNC connected to one of the serial ports.
> >
> > 2. Adding a Telpac gateway that that would use a KISS based TNC
> > connected to one of the serial ports. This would be particularly
> > useable for local 2meter packet based Winlink systems.
> >
> > 3. Add a timer based radio power control. This is based on a
> > thought that if we run these out in the field on battery power,
it'd
> > be good to allow the radio portion of the system automatically
turned
> > on and off when nobody is there.
> >
> > 4. Add an application that would allow data coming from the serial

> > port to be streamed to a remote IP. This could be used to stream
> > telemetry to a remote location
> >
> > 5. Add a weather station to APRS packet program
> >
> > I now have one unit with two attached serial ports, but can't do
> > anything with them yet. I'd be happy to lend it to whoever would
be
> > willing to take on this task.
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> > Yahoo! Groups Links
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407. Re: Mast Mounting Bracket

Yahoo group: DAWG-HSMM
Date: 2005-02-01 20:47:24 UTC
From: wb8wka
Topic: 373 Message: 407

--- In ntms-hsmm@yahoogroups.com, Douglas Kilgore
<douglas.kilgore@c...> wrote:
> Ahhh! A $7.95 mounting bracket. Just what I need to attach the
$10.00
> Home Depot lawn controller box to the mast.

Doug:

Do you have a part number on that box? I'm finding orbit valve boxes in that price range, but not sure if they are fully enclosed (on homedepot.com). Have a Lowes 30 miles from me that I go by a few times a week so might stop there and see what they have.

The small orbit valve box also looked interesting to use as a radome cover over a biquad.

Regards,

Jeff wb8wka

408. February North Texas Microwave Society Meeting

Yahoo group: DAWG-HSMM
Date: 2005-02-02 03:18:58 UTC
From: Bob and Debbie Kmak
Topic: 408 Message: 408

Greetings,

The February North Texas Microwave Society meeting will be held at the University of North Texas campus, on February 5th.
It will be in Room 418 of the Union Building.
Informal chat and swap meet at 12 PM.
Official meeting starts at 1 PM.

The Agenda:

Protecting Your Computer From Attacks, by Roger Dillon, N5PGH

Tuneup Party - 902 MHz through 10 GHz

Bring your 902 MHz and up rigs and have them checked out!
Test equipment on hand will include a spectrum analyzer, signal generator, power meter and frequency counter.
Sometimes a fresh set of eyes is all it takes to find a chronic problem.
Let's all get our rigs ready to make some noise during the April 902 and Up Rover Sprint!

Directions to UNT:
From Dallas:

North on I-35E to Denton

Exit North Texas Blvd, turn right at light

Travel two blocks, turn right on Eagle Drive

Travel approx. ½ mile, turn left on Welsh St.

Travel three blocks, turn left on W Prairie St. (one way street)

Take first left into parking lot

W Prairie St., Avenue A and W Chestnut St form a square

The Union Building is on Avenue A.

Meeting in Room 418 of the Union Building, on the fourth floor.

From Ft. Worth:

North on I-35W to Denton

Exit W. Airport Rd (FM1515), S. Bonnie Brae, not sure how exit is marked

Turn right and proceed to the I-35E service road, turn right (towards Dallas)

Travel to North Texas Blvd, turn left, crossing over I-35E

Travel two blocks, turn right on Eagle Drive

Travel approx. ½ mile, turn left on Welsh St.

Travel three blocks, turn left on W Prairie St. (one way street)

Take first left into parking lot

W Prairie St., Avenue A and W Chestnut St form a square

The Union Building is on Avenue A.

Meeting in Room 418 of the Union Building, on the fourth floor.

See you there!

Bob, K5WO

[Non-text portions of this message have been removed]

409. WRT54G power draw testing

Yahoo group: DAWG-HSMM
Date: 2005-02-02 05:52:48 UTC
From: J. Beadles
Topic: 409 Message: 409

I finally set up an ammeter cable and tested the DC current draw of the wrt. The results were interesting. On boot, the unit drew approx. 350mw. When it turned the radio on, the current drain went up to about 430mw. The Satori firmware provides the option of adjusting the power in 1mw steps from zero to 84mw. I selected set the unit to a range of powers from 1mw all the way to 82mw, verifying that the signal level was changing using Netstumbler. At no time did the dc current change from approx 435mw. Telnetting into the box and using the "wl radio off" command to turn the radio off, the draw dropped back down to 350mw.

410. Re: [ntms-hsmm] WRT54G power draw testing

Yahoo group: DAWG-HSMM
Date: 2005-02-02 13:10:48 UTC
From: Anthony Campbell
Topic: 409 Message: 410

Is this at 5 VDC or 12 VDC input?

Tony

--- "J. Beadles" <jbeadles@...> wrote:

>
> I finally set up an ammeter cable and tested the DC
> current draw of
> the wrt. The results were interesting. On boot,
> the unit drew
> approx. 350mw. When it turned the radio on, the
> current drain went
> up to about 430mw. The Satori firmware provides the
> option of
> adjusting the power in 1mw steps from zero to 84mw.
> I selected set
> the unit to a range of powers from 1mw all the way
> to 82mw, verifying
> that the signal level was changing using
> Netstumbler. At no time did
> the dc current change from approx 435mw. Telnetting
> into the box and
> using the "wl radio off" command to turn the radio
> off, the draw
> dropped back down to 350mw.
>
>
>
>
>
>

411. Re: [ntms-hsmm] WRT54G power draw testing

Yahoo group: DAWG-HSMM
Date: 2005-02-02 13:52:22 UTC
From: jbeadles@pobox.com
Topic: 409 Message: 411

12v.

Now that I've done this, I'm thinking my next step is to hook up a variable PS and see what input voltage it will take. I have a bid on a digital thermometer that I'll use to monitor the temp of the voltage regulator.

On 2 Feb 2005 at 5:10, Anthony Campbell wrote:

>
> Is this at 5 VDC or 12 VDC input?
>
> Tony
>
> --- "J. Beadles" <jbeadles@...> wrote:
>
> >
> > I finally set up an ammeter cable and tested the DC
> > current draw of
> > the wrt. The results were interesting. On boot,
> > the unit drew
> > approx. 350mw. When it turned the radio on, the
> > current drain went
> > up to about 430mw. The Satori firmware provides the
> > option of
> > adjusting the power in 1mw steps from zero to 84mw.
> > I selected set
> > the unit to a range of powers from 1mw all the way
> > to 82mw, verifying
> > that the signal level was changing using
> > Netstumbler. At no time did
> > the dc current change from approx 435mw. Telnetting
> > into the box and
> > using the "wl radio off" command to turn the radio
> > off, the draw
> > dropped back down to 350mw.

412. Re: power draw testing + new unrelated FET question

Yahoo group: DAWG-HSMM
Date: 2005-02-02 16:12:48 UTC
From: Ken Peter
Topic: 409 Message: 412

Don't bid too high. I allready have an IR non-contact
thermometer (with laser pointer) you can borrow for
those tests.

>From: jbeadles@...
>I have a bid on a digital thermometer that I'll use
>to monitor the temp of the voltage regulator.

I bought some 0.2db noise figure HJ Fets on ebay.
Now wondering how to match the input for lowest
noise? Ropt for noise is only specified at 4ghz, and I
have to guess based on the Smith chart of a similar
GASFET which way the match for 2.437ghz is likely
to drift. (slightly more capacitive?)

I'll be taking advantage of the Xinger hybrid couplers
I bought earlier to hide the reflection by misdirecting
it back to an isolated port. This means I'll be using 2
HJ Fets in a 90degree balanced configuration.

Why is the optimum input match for low noise not
the same as the best match for power transfer and
low reflection?

Don't the reflection losses count AGAINST the over
all noise figure (S/N ratio input) / (S/N ratio output) ?
How does wasted input power reduce output noise?
Have they (NEC) allready computed this loss into the
Ropt graph?

Is there any noise benefit to cool an LNA down only
slightly below 0C with thermoelectric coolers? Or do
you have to go a lot colder than that?

413. Re: power draw testing + new unrelated FET question

Yahoo group: DAWG-HSMM
Date: 2005-02-02 18:10:53 UTC
From: J. Beadles
Topic: 409 Message: 413

Nifty! I'll still wind up with a dedicated unit with wired probes though, because I'd like to stick the probe in a sealed case over the summer and try to do some real heat susceptability testing. There are some on eBay going for in the $20 range, so it's not too bad.

--- In ntms-hsmm@yahoogroups.com, "Ken Peter" <kenpeter@h...> wrote:
> Don't bid too high. I allready have an IR non-contact
> thermometer (with laser pointer) you can borrow for
> those tests.
>
> >From: jbeadles@p...
> >I have a bid on a digital thermometer that I'll use
> >to monitor the temp of the voltage regulator.

414. KD5ZXG: Re: Unrelated LNA HJ-FET Question

Yahoo group: DAWG-HSMM
Date: 2005-02-03 04:32:24 UTC
From: Ken Peter
Topic: 414 Message: 414

>Are you on the NTMS mailing list? You are elegible if you are a paid
>member. Some of these questions should be asked there.

I thought this WAS the NTMS mailing list??? I get an email every
time someone here posts...

If you were suggesting my 2.4Ghz LNA questions might not be
relevant to our hsmm discussion? What else would I be planning
to do with one?

I don't know the typical RX noise figures of our access points.
I know my HSB1 booster is claimed to be around 3.5db, and
that number is supposed to be some kind of an "improvement".
I see discreet FETs as low as 0.25 and MMICS as low as 0.7,
so why should we suffer less than the very best available?

I suspect the pin diode diversity switch in most equipment adds
to RX loss and noise as well. Your linksys booster may be the
exception? As your RX LNA goes straight to its own antenna.
Any switching is upstream of the low noise reciever section.

Other equipment might benefit from surgical bypass of the
TX/RX and diversity PIN diode switches. Sure makes it easier
to stack on additional amplification.

I note my HSB1 has two unused pads in line with the power
LEDs. Any bets those unused pads are for TX and RX lights!
I see no other missing parts on the top board but those two.
Suppose I graft the 100mw and 200mw lights (I never use)
and see if my intuition about those extra pads is correct?

415. KD5ZXG: Atheros XR Mode (-105db S/N ratio)

Yahoo group: DAWG-HSMM
Date: 2005-02-03 07:34:38 UTC
From: Ken Peter
Topic: 409 Message: 415

http://www.atheros.com/pt/papers.html

The readers digest version:

Link integrity all the way down to -105db S/N ratio! at 250Kb/Sec
Compare 802.11b: -96db S/N required for bare minimum 1Mb/Sec
9db better to establish a bare minimum link.

The equivalent 1Mb/Sec speed XR (ODFM?) link needs only -101db
5db better than 802.11b at the same speed.

Above 3Mb/Sec XR modes rolls over to 802.11g 6Mb/Sec standard.
Looks to me like its just a slower long range version of plain old G.
Used for fallback in preference over legacy B modes.

I first spotted an option for Atheros' proprietary XR mode when accessing
my G-820 bridge by Telnet. Was absoloutely no mention of it in the GUI.
Seems it was allready enabled by default.

Later discovered XR feature on my DI-624 router. Right there in the GUI
this time, no attempt to hide it. Enabling XR disabled my 108mbs SuperG
options... It also forces SSID beaconing on.

416. oops dbm - forget s/n ratio.

Yahoo group: DAWG-HSMM
Date: 2005-02-03 08:21:09 UTC
From: Ken Peter
Topic: 409 Message: 416

```
I should have realised immediately...
-105db S/N ratio is rediculous.
Units should have been dbm.
```

417. Re: [ntms-hsmm] KD5ZXG: Atheros XR Mode (-105db S/N ratio)

Yahoo group: DAWG-HSMM
Date: 2005-02-03 13:24:54 UTC
From: jbeadles@pobox.com
Topic: 409 Message: 417

Yowsa! We'll have to play with that. I picked up one of the
refurbished 624s - can you make them bridge?

On 3 Feb 2005 at 1:34, Ken Peter wrote:

>
> http://www.atheros.com/pt/papers.html
>
> The readers digest version:
>
> Link integrity all the way down to -105db S/N ratio! at 250Kb/Sec
> Compare 802.11b: -96db S/N required for bare minimum 1Mb/Sec
> 9db better to establish a bare minimum link.
>
> The equivalent 1Mb/Sec speed XR (ODFM?) link needs only -101db
> 5db better than 802.11b at the same speed.
>
> Above 3Mb/Sec XR modes rolls over to 802.11g 6Mb/Sec standard.
> Looks to me like its just a slower long range version of plain old G.
> Used for fallback in preference over legacy B modes.
>
> ----------
>
> I first spotted an option for Atheros' proprietary XR mode when accessing
> my G-820 bridge by Telnet. Was absoloutely no mention of it in the GUI.
> Seems it was allready enabled by default.
>
> Later discovered XR feature on my DI-624 router. Right there in the GUI
> this time, no attempt to hide it. Enabling XR disabled my 108mbs SuperG
> options... It also forces SSID beaconing on.
>
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> Yahoo! Groups Links
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418. Re: [ntms-hsmm] KD5ZXG: Re: Unrelated LNA HJ-FET Question

Yahoo group: DAWG-HSMM
Date: 2005-02-03 13:36:37 UTC
From: jbeadles@pobox.com
Topic: 414 Message: 418

On 2 Feb 2005 at 22:32, Ken Peter wrote:

>
> >Are you on the NTMS mailing list? You are elegible if you are a paid
> >member. Some of these questions should be asked there.
>
> I thought this WAS the NTMS mailing list??? I get an email every
> time someone here posts...
>
> If you were suggesting my 2.4Ghz LNA questions might not be
> relevant to our hsmm discussion? What else would I be planning
> to do with one?

Actually there are two lists, the other is a general NTMS list while
this is the more specific HSMM one. I didn't see the original msg to
you, but I suspect the writer was thinking that you might get more
response to some of these more technical questions on the other list.
However, you are right on topic, so go right ahead posting this info.
I can't speak to much of it, but it's interesting!

> I don't know the typical RX noise figures of our access points.
> I know my HSB1 booster is claimed to be around 3.5db, and
> that number is supposed to be some kind of an "improvement".
> I see discreet FETs as low as 0.25 and MMICS as low as 0.7,
> so why should we suffer less than the very best available?
>
> I suspect the pin diode diversity switch in most equipment adds
> to RX loss and noise as well. Your linksys booster may be the
> exception? As your RX LNA goes straight to its own antenna.
> Any switching is upstream of the low noise reciever section.
>
> Other equipment might benefit from surgical bypass of the
> TX/RX and diversity PIN diode switches. Sure makes it easier
> to stack on additional amplification.

Do you have a Linksys booster to play with? I'll lend you mine if
you want to experiment.

> I note my HSB1 has two unused pads in line with the power
> LEDs. Any bets those unused pads are for TX and RX lights!
> I see no other missing parts on the top board but those two.
> Suppose I graft the 100mw and 200mw lights (I never use)
> and see if my intuition about those extra pads is correct?

419. Commercial portable emergency access point

Yahoo group: DAWG-HSMM
Date: 2005-02-03 14:56:35 UTC
From: J. Beadles
Topic: 419 Message: 419

```
> -----Original Message-----
> From: John Galvin
>
> http://www.calit2.net/news/2004/4-19_entree.html
>
> John Galvin - N5TIM
```

420. Subject: Re: power draw testing + new unrelated FET question

Yahoo group: DAWG-HSMM
Date: 2005-02-03 18:53:59 UTC
From: Joe - N5PYK
Topic: 420 Message: 420

Ken,
Please see embedded below.....

> Message: 3
> Date: Wed, 02 Feb 2005 10:12:48 -0600
> From: "Ken Peter" <kenpeter@...>
> Subject: Re: power draw testing + new unrelated FET question
>
> Don't bid too high. I allready have an IR non-contact
> thermometer (with laser pointer) you can borrow for
> those tests.
>
> >From: jbeadles@...
> >I have a bid on a digital thermometer that I'll use
> >to monitor the temp of the voltage regulator.
>
> I bought some 0.2db noise figure HJ Fets on ebay.
> Now wondering how to match the input for lowest
> noise? Ropt for noise is only specified at 4ghz, and I
> have to guess based on the Smith chart of a similar
> GASFET which way the match for 2.437ghz is likely
> to drift. (slightly more capacitive?)

Matching fets can be a tricky ordeal especially in the microwave region. I presume that you are aware that the device will have to be mounted on etched material with appropriate trace widths in order to fune for best noise figure. You may want to take a look at an application called AppCad at http://hp.woodshot.com/ which can help tremendously both on figuring out matching networks and transmission lines. There are a number of tricks to getting these things matched properly and I've attempted a few times, but have had only limited success...I need to sit down and do all the math then build first!

>
> I'll be taking advantage of the Xinger hybrid couplers
> I bought earlier to hide the reflection by misdirecting
> it back to an isolated port. This means I'll be using 2
> HJ Fets in a 90degree balanced configuration.
>
> Why is the optimum input match for low noise not
> the same as the best match for power transfer and
> low reflection?

Can't give you a straight answer here as I'm not a semiconductor guy, but you are right, the are not normally the same point although for FETs, they aren't too far apart. For 802.11 with the wide bandwidths and since we are

aiming toward the warm earth, once you go under 1dB noise figure, you don't see a lot of useful benefit. Typically, tuning for max power out is more than sufficient for our applications....would be a vastly different story than if you were doing moonbounce.

> Don't the reflection losses count AGAINST the over
> all noise figure (S/N ratio input) / (S/N ratio output) ?
> How does wasted input power reduce output noise?
> Have they (NEC) allready computed this loss into the
> Ropt graph?
>

Yes, that's why you want to have a good match....but the devices typically want to see a bit more inductance for the absolute lowest NF

> Is there any noise benefit to cool an LNA down only
> slightly below 0C with thermoelectric coolers? Or do
> you have to go a lot colder than that?
>
>

This will not buy you anything for 802.11 purposes....its got to be REALLY cold...like approaching 0K. But, then again, if you have liquid nitrogen to spare.....

73,
Joe - N5PYK

>
>

421. NTMS vs NTMS-HSMM Email List

Yahoo group: DAWG-HSMM
Date: 2005-02-03 19:45:21 UTC
From: Douglas Kilgore
Topic: 414 Message: 421

There is a separate NTMS email list for paid members of NTMS. The North Texas Microwave Society has been in existence for many years and among it's members are some extremely knowledgeable technical guys that work with microwaves. Some of them are published authors in ARRL Microwave books. They are some of the movers and shakers that have advanced microwave in the amateur radio area. NTMS has worldwide membership.

NTMS members emphasize low bandwidth analog signals over long distances where as NTMS-HSMM members emphasize high bandwidth digital signals over short distances.

The NTMS-HSMM Yahoo email Group is more focussed on digital communication using microwave. Consider it a subset of "microwave". We are using off-the-shelf Part 15 equipment for ham purposes. Computers and software and internet are involved. Our list is oriented more toward local Dallas-Fort Worth operations but lately we have been getting persons joining the list from outside of the area just to see what we are doing.

There is synergy between the groups. We have a lot to learn from each other.

That's why I thought you might be able to get an answer about noise figures, PIN diodes, gain, etc. from the other list.

Doug Kilgore KD5OUG

Ken Peter wrote:

>>Are you on the NTMS mailing list? You are elegible if you are a paid
>>member. Some of these questions should be asked there.
>
>
> I thought this WAS the NTMS mailing list??? I get an email every
> time someone here posts...
>
> If you were suggesting my 2.4Ghz LNA questions might not be
> relevant to our hsmm discussion? What else would I be planning
> to do with one?
>

422. 19 db Rootennas - Wow!

Yahoo group: DAWG-HSMM
Date: 2005-02-04 00:37:02 UTC
From: J. Beadles
Topic: 422 Message: 422

$79 ea from Fab-corp. These things are much larger than the 14 db units. More like a slightly shallow dish washing tub. I think mounting may require a little more than the usual cheezy tripod in the wind. The WRTs are going to be lost in them.

423. RE: [ntms-hsmm] 19 db Rootennas - Wow!

Yahoo group: DAWG-HSMM
Date: 2005-02-04 10:23:49 UTC
From: John Champa
Topic: 422 Message: 423

If you mention "HSMM" in your order, I think they give you a discount.

>From: "J. Beadles" <jbeadles@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: ntms-hsmm@yahoogroups.com
>Subject: [ntms-hsmm] 19 db Rootennas - Wow!
>Date: Fri, 04 Feb 2005 00:37:02 -0000
>

[Non-text portions of this message have been removed]

424. Re: Atheros XR Mode

Yahoo group: DAWG-HSMM
Date: 2005-02-04 11:02:51 UTC
From: Ken Peter
Topic: 409 Message: 424

>Yowsa! We'll have to play with that. I picked up one of the
>refurbished 624s - can you make them bridge?

I didn't see any WDS or client bridging modes on the router.
The 624 is just a switch + firewall + access point.

425. KD5ZXG: WDS and XR

Yahoo group: DAWG-HSMM
Date: 2005-02-04 12:17:11 UTC
From: Ken Peter
Topic: 409 Message: 425

>Yowsa! We'll have to play with that. I picked up one of the
>refurbished 624s - can you make them bridge?

http://www.broadbandreports.com/forum/remark,11793749?hilite=2100ap+xr

I belive the 2100AP with 2.0 firmware is the multipurpose device you would
be looking for. Its an access point, not a switch+router+firewall. But it
does
do XR and several bridge modes. The link above explains how to enable the
hidden XR option - in telnet only.

My G-820 client bridge has WDS and access point mentioned in telnet, but
the chipset is the one Atheros sells for client bridge mode only. I doubt
the
other WDS modes would actually work, but it doesn't cost anything to try.
XR feature in telnet does work.

Does the 624 firewall router do WDS modes? They aren't in the GUI, and the
telnet port to the embedded Atheros access point seems to be unavailable.
I am sure its own signal can be repeated by WDS, but doubt it will repeat
anything else. Definately does XR. Even in the GUI (using latest firmware).

You can always hook a Firewall's WAN Ethernet port to a client bridge and
NAT to a different subnet, ssid, and channel on the embedded access point.
Basically exactly what KD5OUG and I did at Mentorfest. The 624 is far from
useless, its got a great firewall with lots of nifty features like dyamic
DNS
updating.

426. RE: [ntms-hsmm] 19 db Rootennas - Wow!

Yahoo group: DAWG-HSMM
Date: 2005-02-04 13:34:51 UTC
From: jbeadles@pobox.com
Topic: 422 Message: 426

Now that you mention it, let's look at the receipt. The antennas list for $79 on their website, but the receipt shows they charged me about $71.25 for each.

These things list on the Pacific Wireless web site for $89. Not, so not a bad discount from Fab-Corp! (www.fab-corp.com)

On 4 Feb 2005 at 5:23, John Champa wrote:
>
> If you mention "HSMM" in your order, I think they give you a discount.
>
> >From: "J. Beadles" <jbeadles@...>

427. RE: [ntms-hsmm] Commercial portable emergency access point

Yahoo group: DAWG-HSMM
Date: 2005-02-04 16:26:05 UTC
From: John Champa
Topic: 419 Message: 427

They took our idea from the SHARK! ;-)

>From: "J. Beadles" <jbeadles@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: ntms-hsmm@yahoogroups.com
>Subject: [ntms-hsmm] Commercial portable emergency access point
>Date: Thu, 03 Feb 2005 14:56:35 -0000
>

[Non-text portions of this message have been removed]

428. RE: [ntms-hsmm] Commercial portable emergency access point

Yahoo group: DAWG-HSMM
Date: 2005-02-04 16:50:19 UTC
From: dubose@texas.net
Topic: 419 Message: 428

I think its less than our SHARK...its just an AP with antennas.

My Equal to this is a WET11 with 800mw BDA, 12V 11AH gellcell w/5v regulator in an NEMA 25 box with N connector for antenna. I use a $5 PCB panel, omin-directional gain antenna, yagi, wave launcher or dish antenna.

CAT5 down the mast.

BTW I was interested in the NTMS using 500 ft of CAT5 in the "RACE". What kind/brand of CAT5 and what were you running it between, i.e. WET11 and LinkSys rounter/hub/switch?

Walt/K5YFW

Quoting John Champa <k8ocl@...>:
>
>
> They took our idea from the SHARK! ;-)
>
>
>
> >From: "J. Beadles" <jbeadles@...>
>
> >Reply-To: ntms-hsmm@yahoogroups.com
>
> >To: ntms-hsmm@yahoogroups.com
>
> >Subject: [ntms-hsmm] Commercial portable emergency access point
>
> >Date: Thu, 03 Feb 2005 14:56:35 -0000
>
> >
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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> To visit your group on the web, go to:
> http://groups.yahoo.com/group/ntms-hsmm/
>
> To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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429. Network FD Logging Program & USB Stuff Galor!

Yahoo group: DAWG-HSMM
Date: 2005-02-04 21:33:54 UTC
From: Randall Dunning
Topic: 429 Message: 429

Field Day Logging program that has been successfully utilized on 802.11b/g networks http://www.n3fjp.com/

Excellent source for everything USB: http://www.usbgear.com

I have successfully gotten the sound dongle:

http://www.usbgear.com/computer_cable_details.cfm?sku=165143&cats=121&catid=121%2C637%2C136

to work on my Itronix XC 6250 Pro. This is the first sound card that has worked. There are also PCMCIA adapters that allows a non-USB equipped PC to run USB gear:

http://www.usbgear.com/computer_cable_details.cfm?sku=516167&cats=103&catid=538%2C134%2C103

http://www.usbgear.com/computer_cable_details.cfm?sku=USBG2UE&cats=103&catid=538%2C134%2C103

Cheerio & 73,

RD - KC5QHH

"It does not do to leave a live dragon out of your calculations, if you live near him." ~ J.R.R. Tolkein

430. Re: [ntms-hsmm] Network FD Logging Program & USB Stuff Galor!

Yahoo group: DAWG-HSMM
Date: 2005-02-05 04:41:07 UTC
From: jbeadles@pobox.com
Topic: 429 Message: 430

I'll note for people who haven't seen this before - Itronix is a brand of ruggedized computer. They usually sell to fleet applications, and tend to be replaced en mass with the old units showing up on eBay for $100 or less.

Randy has been working on his for a while, and has gone through a bunch of PC Card and USB sound adapters trying to find one that'd work, and work on PSK31.

On 4 Feb 2005 at 21:33, Randall Dunning wrote:

>
>
> Field Day Logging program that has been successfully utilized on
> 802.11b/g networks http://www.n3fjp.com/
>
> Excellent source for everything USB: http://www.usbgear.com
>
> I have successfully gotten the sound dongle:
>
> http://www.usbgear.com/computer_cable_details.cfm?
> sku=165143&cats=121&catid=121%2C637%2C136
>
> to work on my Itronix XC 6250 Pro. This is the first sound card that
> has worked. There are also PCMCIA adapters that allows a non-USB
> equipped PC to run USB gear:
>
> http://www.usbgear.com/computer_cable_details.cfm?
> sku=516167&cats=103&catid=538%2C134%2C103
>
> http://www.usbgear.com/computer_cable_details.cfm?
> sku=USBG2UE&cats=103&catid=538%2C134%2C103
>
> Cheerio & 73,
>
> RD - KC5QHH
>
> "It does not do to leave a live dragon out of your
> calculations, if you live near him." ~ J.R.R. Tolkein
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> Yahoo! Groups Links
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431. WRT54G / APRS project

Yahoo group: DAWG-HSMM
Date: 2005-02-12 14:53:32 UTC
From: J. Beadles
Topic: 431 Message: 431

A couple of days ago, I posted a msg to the TAPR APRSSIG list discussing the possibility of using the WRT54G as an APRS digi/internet gateway and as a telpac controller. After that msg, we've gotten over 10 new members to the list who are interested in that project.

Welcome!

This is the North Texas Microwave Society - HSMM working group, formed last year after the Dallas Area Working Group - HSMM merged with the NTMS. The major purpose of the NTMS is to study the practice and operation of microwave equipment. The HSMM working group extends this purpose by adding high speed networking, in line with the ARRL's HSMM working group. Information on the HSMM WG is located at http://www.arrl.org/hsmm/. Information on the NTMS is at http://www.ntms.org/.

As with the NTMS parent org, the NTMS HSMM WG focuses on operational installations in the North Texas area, but all are welcome to participate.

Over the past year, we've been experimenting with putting up operational, if temporary, HSMM networks. We've been putting up networks at special events like the Richardson Wild Ride (bike rally), Hamcom, and Mentorfest, gaining experience and knowledge.

In the local area, we've been pushing APRS operation and now have a large network with a lot of users. There is also a drive afoot by the ARES outfit in my county to implement Winlink so that we will have a more convenient email capability then just using raw packet. The thinking goes that the more users we have using APRS with real TNCs, the more users we'd have who would be able to switch to Winlink if we had to deploy them to Hospitals in a mass casualty situation.

Our experimentation with the WRT shows that it could be extremely useful in supporting both APRS and Winlink. A repackaged WRT with, say, a TNC-X attached would have a total cost of around $110, which is one heck of a lot cheaper than packaging a PC to do the same job. Add in the wireless bridging features and we have a package with a heck of a lot of potential.

Now I, personally, do not have the programming skills to make this work. I could get competent to work on it within a year or so, but have enough other tasks to do that I'm probably most productive focusing on those instead. I'm happy to gather requirements, beta test, write up presentations, but I figure most of the development work will be done by those of you with the interest and ability to

dive down into the hardware.

Here's what I've collected about the WRT hardware: http://www.n5oom.org/hsmm/wrt54g.htm. I'd recommend the Seattle Wireless discussion, and the SVEASOFT forums (though that costs $20).

Dig in!

432. RE: [ntms-hsmm] WRT54G / APRS project

Yahoo group: DAWG-HSMM
Date: 2005-02-13 06:11:22 UTC
From: John Champa
Topic: 431 Message: 432

Nice work, and a fine write-up. Thanks!

73, John - K8OCL

>From: "J. Beadles" <jbeadles@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: ntms-hsmm@yahoogroups.com
>Subject: [ntms-hsmm] WRT54G / APRS project
>Date: Sat, 12 Feb 2005 14:53:32 -0000
>

[Non-text portions of this message have been removed]

433. New file uploaded to ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2005-02-13 23:02:15 UTC
From: ntms-hsmm@yahoogroups.com
Topic: 38 Message: 433

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the ntms-hsmm
group.

File : /HSMM_WG_to_ARRL_BOD_2005.pdf
Uploaded by : kd5oug <douglas.kilgore@...>
Description : HSMM Working Group Recommendations to BOD

You can access this file at the URL:
http://groups.yahoo.com/group/ntms-hsmm/files/HSMM_WG_to_ARRL_BOD_2005.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

kd5oug <douglas.kilgore@...>

434. Digined on WRT54g

Yahoo group: DAWG-HSMM
Date: 2005-02-14 01:50:05 UTC
From: Wes Johnston
Topic: 434 Message: 434

Guys, I'm just sitting here thinking about the WRT54g... it has 3 network cards...LAN , WAN, WIFI, and 2 serial ports. So we could hook up 2 TNCs and bridge two frequencies together. All we need to do is to install the ax25 stack on the box and install digined... or digined with only KISS support.... Couple that with Opentrac's idea of sending packets to the broadcast subnet so that clients only need to listen to UDP packets on, say UDP port 14439... and we have the "killer app"....

Wes

435. KD5ZXG: LNA-6G test 802.11b (recieve only)

Yahoo group: DAWG-HSMM
Date: 2005-02-14 09:08:23 UTC
From: Ken Peter
Topic: 38 Message: 435

Still my intention to design an build my own LNA and power amp for 802.11b
I still need more study on the problem of biasing and matching a FET for lowest
noise. I got lazy and wanted to see how it was done by someone who knows.

I picked up an LNA-6G from RF Bay as a commercial reference for comparison.
Not bi-directional, playing in enhanced recieve mode only (netstumbler survey)
The LNA-6G noise figure is claimed to be 1.6 at 2500, and +20db gain. Nice!
I can't speak for the noise figure, but the gain (compared to an SMA barrel)
appears to be right on the money.

The package is labeled 12VDC, but a peek inside shows an LM78L05 regulator
that may run from as little as 6.7V (or as much as 35V if it doesn't overheat?)
I ran my tests from a 9V battery. The MMIC inside is marked 867. I have not
yet been able to identify the manufacturer (Agilent perhaps?). There does
not appear to be any biasing for a FET. It can't be anything but a 5V MMIC.

Anyways, I am using a circulator and dummy load to protect this LNA from the
200mW output of my radio card. The LNA is right at the antenna, before any
PIN diodes. Its working great! I can see all sorts of stuff that was previously
too weak and/or hidden in the noise floor. The circulator blocks any TX and
passes RX (located on the reciever side, not between the LNA and antenna)

It definately beats the +8.4db Hawking booster for RX! It was always sort of
debatable if the Hawking was helping RX at all, absoloutely no doubts with
the LNA-6G.

I could probably use two circulators to bypass my outbound signal around the
LNA with a single antenna. But I need to make sure I have enough directional
isolation, filtering, and/or attenuation that no frequency will see any loop
gain.

I have no idea how well "RYT 300163 1.7 - 2.7Ghz" circulators isolate outside
thier rated passband? Within the passband they isolate probably around -20db,
very close to the gain of the LNA. The LNA-6G has gain well above and below
the band of interest, I worry the directional isolation of these circulators alone
might not be enough to stop oscillation through the TX bypass at some other
frequency?

I also snagged Qty4 5V VCOs for 2300-2450. I only need 1 for CW reference,
or possibly team one up with a sawtooth to do some sweeps. If anyone else

has a project idea for a VCO, ask before they are gone. I also have Qty4 that
I bought by mistake covering 2156-2224 and run from 6V, I have no plans for utilizing any of those.

436. Re: [ntms-hsmm] KD5ZXG: LNA-6G test 802.11b (recieve only)

Yahoo group: DAWG-HSMM
Date: 2005-02-14 14:15:10 UTC
From: jbeadles@pobox.com
Topic: 38 Message: 436

Wow! I'd be interested in running abound with that with a card and netstumbler to see what happens. I'm interested to see if the extra receive sensitivity adds extra noise againsed the desired signal. I see one of those LNA-6Gs on ebay for abt $79. If you can work out the components so we could make a cheaper version, that'd be massively useful. Maybe do a circulator on the PCB, at least I seem to recall that is possible, isn't it?

On 14 Feb 2005 at 3:08, Ken Peter wrote:

>
> Still my intention to design an build my own LNA and power amp for 802.11b
> I still need more study on the problem of biasing and matching a FET for
> lowest
> noise. I got lazy and wanted to see how it was done by someone who knows.
>
> I picked up an LNA-6G from RF Bay as a commercial reference for comparison.
> Not bi-directional, playing in enhanced recieve mode only (netstumbler
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> The LNA-6G noise figure is claimed to be 1.6 at 2500, and +20db gain. Nice!
> I can't speak for the noise figure, but the gain (compared to an SMA barrel)
> appears to be right on the money.
>
> The package is labeled 12VDC, but a peek inside shows an LM78L05 regulator
> that may run from as little as 6.7V (or as much as 35V if it doesn't
> overheat?)
> I ran my tests from a 9V battery. The MMIC inside is marked 867. I have not
> yet been able to identify the manufacturer (Agilent perhaps?). There does
> not appear to be any biasing for a FET. It can't be anything but a 5V MMIC.
>
> Anyways, I am using a circulator and dummy load to protect this LNA from the
> 200mW output of my radio card. The LNA is right at the antenna, before any
> PIN diodes. Its working great! I can see all sorts of stuff that was
> previously
> too weak and/or hidden in the noise floor. The circulator blocks any TX and
> passes RX (located on the reciever side, not between the LNA and antenna)
>
> It definately beats the +8.4db Hawking booster for RX! It was always sort of
> debatable if the Hawking was helping RX at all, absoloutely no doubts with
> the LNA-6G.
>
> I could probably use two circulators to bypass my outbound signal around the
> LNA with a single antenna. But I need to make sure I have enough directional
> isolation, filtering, and/or attenuation that no frequency will see any loop
> gain.

>
> I have no idea how well "RYT 300163 1.7 - 2.7Ghz" circulators isolate
> outside
> thier rated passband? Within the passband they isolate probably around
> -20db,
> very close to the gain of the LNA. The LNA-6G has gain well above and below
> the band of interest, I worry the directional isolation of these circulators
> alone
> might not be enough to stop oscillation through the TX bypass at some other
> frequency?
>
> I also snagged Qty4 5V VCOs for 2300-2450. I only need 1 for CW reference,
> or possibly team one up with a sawtooth to do some sweeps. If anyone else
> has a project idea for a VCO, ask before they are gone. I also have Qty4
> that
> I bought by mistake covering 2156-2224 and run from 6V, I have no plans for
> utilizing any of those.
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> Yahoo! Groups Links
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437. Re: Digined on WRT54g

Yahoo group: DAWG-HSMM
Date: 2005-02-14 15:25:56 UTC
From: J. Beadles
Topic: 434 Message: 437

--- In ntms-hsmm@yahoogroups.com, Wes Johnston <yahoo@k...> wrote:
> Guys, I'm just sitting here thinking about the WRT54g... it has 3 network
> cards...LAN , WAN, WIFI, and 2 serial ports. So we could hook up 2 TNCs and
> bridge two frequencies together. All we need to do is to install the ax25
> stack on the box and install digined... or digined with only KISS support....

Yep!

> Couple that with Opentrac's idea of sending packets to the broadcast subnet so
> that clients only need to listen to UDP packets on, say UDP port 14439... and
> we have the "killer app"....

Will that dump packets out to the APRS-IS network? That ultimately is where we need to go. It would be pretty cool to make this a server too though.

438. Network adapter

Yahoo group: DAWG-HSMM
Date: 2005-02-14 15:30:33 UTC
From: Mr rusty bryant
Topic: 38 Message: 438

Hello,
I am new to all this but have been playing around with
wireless networks for a few months.

Now for the questions:

1) Whats the best USB network adapter on the market?
not looking for a router or AP yet, just an adapter.

2) How do you changed the specific channel that your
adapter is using so that it will TX and RX on only
that channel?

Thanks!

Rusty
WB4BSD

Do you Yahoo!?
The all-new My Yahoo! - Get yours free!
http://my.yahoo.com

439. More vendors

Yahoo group: DAWG-HSMM
Date: 2005-02-14 15:30:09 UTC
From: J. Beadles
Topic: 439 Message: 439

Whilst looking for more cheap cables, I ran across a number of additional vendors. Most are so-so but have one or two stunning prices.

http://www.wlanparts.com/ (Look under cables and connectors for the $3.99 1ft N Female Bulkhead to RP-TNC)

http://www.crownelectronics.com/assemblies.html
http://wisp-equipment.com/pigtails.html
http://www.smelectronics.us/microwavecablesman.htm
http://www.connectronics.com/wifi_plus/

Incidentally, I need four pigtails, N Female Bulkheads to regular male SMA, 1 foot, if anybody knows where to get them cheap. I can find the RP-SMA connectors, but not regular SMA.

440. Re: [ntms-hsmm] Network adapter

Yahoo group: DAWG-HSMM
Date: 2005-02-14 15:50:09 UTC
From: Keith Berry
Topic: 38 Message: 440

Hi Rusty,

I will try to answer the questions.

1. Whatever is on sale
2. It is in the manual (maybe)

Seriously, for question one, the brands are varied and they all have their strengths and weaknesses. I have found the Linksys to be pretty good stuff and they usually have more features usually than some other brands in their price range. The best bet is to look for one at a good price and try it out. Only other advice on the if you can get one with a detachable antenna, then you can hook a gain antenna up to it.

For question two, the only way I have seen you can lock a channel down is in Ad-hoc mode. The channel is usually derived from the AP or Router, so the client adapters will scan the channels in infrastructure mode. There may be some out there that will lock in on infrastructure mode, but I am unaware of them. You can go out to most of the manufacturers web sites and get manuals ahead of time that will tell you what features the units have.

Hope this helps.

Regards,
Keith KE?FV

--- Mr rusty bryant <rustyb78@...> wrote:

Hello,
I am new to all this but have been playing around with wireless networks for a few months.

Now for the questions:

1) Whats the best USB network adapter on the market? not looking for a router or AP yet, just an adapter.

2) How do you changed the specific channel that your adapter is using so that it will TX and RX on only that channel?

Thanks!

Rusty
WB4BSD

_____
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441. Re: [ntms-hsmm] Digined on WRT54g

Yahoo group: DAWG-HSMM
Date: 2005-02-14 16:36:36 UTC
From: Gregg Wonderly
Topic: 434 Message: 441

Wes Johnston wrote:
> Guys, I'm just sitting here thinking about the WRT54g... it has 3 network
> cards...LAN , WAN, WIFI, and 2 serial ports. So we could hook up 2 TNCs and
> bridge two frequencies together. All we need to do is to install the ax25
> stack on the box and install digined... or digined with only KISS support....
> Couple that with Opentrac's idea of sending packets to the broadcast subnet so
> that clients only need to listen to UDP packets on, say UDP port 14439... and
> we have the "killer app"....

There should be support for multicast as well so that the network can be
extended as far as necessary and still see the TNC traffic. Imagine
several networks in a TNC with many desktops/stations able to have
accurate and up to date APRS data...

Gregg Wonderly
W5GGW

442. Larger Guage CAT-5 Wire???

Yahoo group: DAWG-HSMM
Date: 2005-02-14 17:40:49 UTC
From: Douglas Kilgore
Topic: 442 Message: 442

Ethernet over CAT-5 wire is limited to about 300 feet. Regular CAT-5 wire has 24 guage conductors. Trying to do Power-over-Ethernet gives quite a voltage drop over that distance. One way to overcome is use higher voltage. Another is to get larger diameter wire.

POE Loss Calculaotr:
http://www.gweep.net/%7Esfoskett/tech/poecalc.html

Therefore, does anyone know of a cable suitable for Ethernet use with larger guage wire? The ideal wire would have 2 unshielded twisted pair plus 2 larger conductors of say 16 or 14 guage. And also outdoor rated.

Doug Kilgore KD5OUG

443. RE: [ntms-hsmm] Larger Guage CAT-5 Wire???

Yahoo group: DAWG-HSMM
Date: 2005-02-14 19:06:09 UTC
From: A.J. Farmer (AJ3U)
Topic: 442 Message: 443

The best way to do this is to inject more power than you need and regulate it at the far end. For example, these units inject 24V onto the cable, and have a 12V and 5V regulated "pick" at the far end. That way voltage loss and cable length is not a problem.

http://www.jefatech.com/product/poedual125

73!

A.J. Farmer, AJ3U
http://www.aj3u.com

-----Original Message-----
From: Douglas Kilgore [mailto:douglas.kilgore@...]
Sent: Monday, February 14, 2005 12:41 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Larger Guage CAT-5 Wire???

Ethernet over CAT-5 wire is limited to about 300 feet. Regular CAT-5 wire has 24 guage conductors. Trying to do Power-over-Ethernet gives quite a voltage drop over that distance. One way to overcome is use higher voltage. Another is to get larger diameter wire.

POE Loss Calculaotr:
http://www.gweep.net/%7Esfoskett/tech/poecalc.html

Therefore, does anyone know of a cable suitable for Ethernet use with larger guage wire? The ideal wire would have 2 unshielded twisted pair plus 2 larger conductors of say 16 or 14 guage. And also outdoor rated.

Doug Kilgore KD5OUG

Yahoo! Groups Links

444. Re: Digined on WRT54g

Yahoo group: DAWG-HSMM
Date: 2005-02-14 19:58:16 UTC
From: J. Beadles
Topic: 434 Message: 444

--- In ntms-hsmm@yahoogroups.com, Gregg Wonderly <gergg@c...> wrote:
> Wes Johnston wrote:
> > Guys, I'm just sitting here thinking about the WRT54g... it has 3
network
> > cards...LAN , WAN, WIFI, and 2 serial ports. So we could hook up
2 TNCs and
> > bridge two frequencies together. All we need to do is to install
the ax25
> > stack on the box and install digined... or digined with only KISS
support....
> > Couple that with Opentrac's idea of sending packets to the
broadcast subnet so
> > that clients only need to listen to UDP packets on, say UDP port
14439... and
> > we have the "killer app"....
>
> There should be support for multicast as well so that the network
can be
> extended as far as necessary and still see the TNC traffic.
Imagine
> several networks in a TNC with many desktops/stations able to have
> accurate and up to date APRS data...
>
> Gregg Wonderly
> W5GGW

You can actually already do that with the standard APRS-IS server
in, for example, UI-View. How does that actually work? We need to
get AE5PL in here, he knows that stuff.

445. Re: Larger Guage CAT-5 Wire???

Yahoo group: DAWG-HSMM
Date: 2005-02-14 20:02:13 UTC
From: J. Beadles
Topic: 442 Message: 445

Problem is getting a really cost effective voltage converter to bring it back down to something reasonable. The WRT has a DC-DC converter in it that is capable of 45v, but from what I've been reading, the caps on the board are only rated to something like 24v.

My thought is to get Kent Britain to make up a stack of cheap PoE boards that use that same voltage regulator, but the adjustable one. That way you could adjust it for whatever voltage you wanted and it'd probably be cheaper than the commercial units.

--- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)" <ajfarmer@s...> wrote:
> The best way to do this is to inject more power than you need and regulate
> it at the far end. For example, these units inject 24V onto the cable, and
> have a 12V and 5V regulated "pick" at the far end. That way voltage loss
> and cable length is not a problem.
>
> http://www.jefatech.com/product/poedual125
>
> 73!
>
> A.J. Farmer, AJ3U
> http://www.aj3u.com
>
>
>
>
> -----Original Message-----
> From: Douglas Kilgore [mailto:douglas.kilgore@c...]
> Sent: Monday, February 14, 2005 12:41 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Larger Guage CAT-5 Wire???
>
>
> Ethernet over CAT-5 wire is limited to about 300 feet. Regular CAT-5
> wire has 24 guage conductors. Trying to do Power-over-Ethernet gives
> quite a voltage drop over that distance. One way to overcome is use
> higher voltage. Another is to get larger diameter wire.
>

> POE Loss Calculaotr:
> http://www.gweep.net/%7Esfoskett/tech/poecalc.html
>
> Therefore, does anyone know of a cable suitable for Ethernet use
with
> larger guage wire? The ideal wire would have 2 unshielded twisted
pair
> plus 2 larger conductors of say 16 or 14 guage. And also outdoor
rated.
>
> Doug Kilgore KD5OUG
>
>
>
>
> Yahoo! Groups Links

446. RE: [ntms-hsmm] Re: Larger Guage CAT-5 Wire???

Yahoo group: DAWG-HSMM
Date: 2005-02-14 20:29:39 UTC
From: A.J. Farmer (AJ3U)
Topic: 442 Message: 446

Most units have standardized on 12V and 5V these days so that is why the POE kit has regulated outputs for both. Doesn't the WRT require 12V like other Linksys routers? This kit is not just the injector, it also includes a regulated DC-DC converter at the equipment end:

http://www.jefatech.com/product/poedual125

By the way, you can use code HSMM when you check out to get a 10% discount at JEFA Tech.

-----Original Message-----
From: J. Beadles [mailto:jbeadles@...]
Sent: Monday, February 14, 2005 3:02 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Larger Guage CAT-5 Wire???

Problem is getting a really cost effective voltage converter to bring it back down to something reasonable. The WRT has a DC-DC converter in it that is capable of 45v, but from what I've been reading, the caps on the board are only rated to something like 24v.

My thought is to get Kent Britain to make up a stack of cheap PoE boards that use that same voltage regulator, but the adjustable one. That way you could adjust it for whatever voltage you wanted and it'd probably be cheaper than the commercial units.

--- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)" <ajfarmer@s...> wrote:
> The best way to do this is to inject more power than you need and regulate
> it at the far end. For example, these units inject 24V onto the cable, and
> have a 12V and 5V regulated "pick" at the far end. That way voltage loss
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> 73!
>
> A.J. Farmer, AJ3U
> http://www.aj3u.com
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> -----Original Message-----
> From: Douglas Kilgore [mailto:douglas.kilgore@c...]
> Sent: Monday, February 14, 2005 12:41 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Larger Guage CAT-5 Wire???
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> Doug Kilgore KD5OUG
>
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>
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Yahoo! Groups Links

447. RE: [ntms-hsmm] Re: Larger Guage CAT-5 Wire???

Yahoo group: DAWG-HSMM
Date: 2005-02-15 01:18:58 UTC
From: jbeadles@pobox.com
Topic: 442 Message: 447

That Jefatech unit is about the cheapest I've seen, though it does require an AC input, which is a bad thing from a flexibility standpoint. If we deploy out in the field, we're going to be running on the old 12v batteries.

Most of the other commercial units I've seen, at least the consumer ones, run either 5v or 12v but are not switchable, which is bad from a flexibility standpoint. We did a short term tower install where we had to put a switch with the APs last year, and the switch was a 7.5v unit. Also, we've had situations where we've run 12v APs, with 5v webcams.

I like the idea of having my own POE voltage regulator, simply because having to build up a set of equipment seems to be a poor way to operate. If I do it, it'll be jumper selectable for voltage and whether or not it passes the power through the adapter, so I can daisy chain PoE regulators with different voltages.

The WRT uses a DC-DC switching regulator capable of accepting 45v. However, I'm given to understand that the caps are only rated for something like 20v to 24v. Therefore we can't really directly dump a a voltage much higher than 18v into the WRT. However, if I can use those regulators in my custom PoE pickers, I should be able to run from abt 15v up to 45v on the injector.

On a personal note, I'm kind of liking 24v just because I can use a couple of lead acids for field power.

On 14 Feb 2005 at 15:29, A.J. Farmer (AJ3U) wrote:

>
> Most units have standardized on 12V and 5V these days so that is why the POE
> kit has regulated outputs for both. Doesn't the WRT require 12V like other
> Linksys routers? This kit is not just the injector, it also includes a
> regulated DC-DC converter at the equipment end:
>
> http://www.jefatech.com/product/poedual125
>
> By the way, you can use code HSMM when you check out to get a 10% discount
> at JEFA Tech.
>
> -----Original Message-----
> From: J. Beadles [mailto:jbeadles@...]
> Sent: Monday, February 14, 2005 3:02 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Re: Larger Guage CAT-5 Wire???

>
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> Problem is getting a really cost effective voltage converter to bring
> it back down to something reasonable. The WRT has a DC-DC converter
> in it that is capable of 45v, but from what I've been reading, the
> caps on the board are only rated to something like 24v.
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> My thought is to get Kent Britain to make up a stack of cheap PoE
> boards that use that same voltage regulator, but the adjustable one.
> That way you could adjust it for whatever voltage you wanted and it'd
> probably be cheaper than the commercial units.
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> --- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)"
> <ajfarmer@s...> wrote:
> > The best way to do this is to inject more power than you need and
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> > it at the far end. For example, these units inject 24V onto the
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> > have a 12V and 5V regulated "pick" at the far end. That way
> voltage loss
> > and cable length is not a problem.
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> > 73!
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> > A.J. Farmer, AJ3U
> > http://www.aj3u.com
> >
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> >
> > -----Original Message-----
> > From: Douglas Kilgore [mailto:douglas.kilgore@c...]
> > Sent: Monday, February 14, 2005 12:41 PM
> > To: ntms-hsmm@yahoogroups.com
> > Subject: [ntms-hsmm] Larger Guage CAT-5 Wire???
> >
> >
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> > POE Loss Calculaotr:
> > http://www.gweep.net/%7Esfoskett/tech/poecalc.html

> >
> > Therefore, does anyone know of a cable suitable for Ethernet use
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> > larger guage wire? The ideal wire would have 2 unshielded twisted
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> > plus 2 larger conductors of say 16 or 14 guage. And also outdoor
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> >
> > Doug Kilgore KD5OUG
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448. Re: [ntms-hsmm] More vendors

Yahoo group: DAWG-HSMM
Date: 2005-02-15 00:26:14 UTC
From: Douglas Kilgore
Topic: 439 Message: 448

Ted Buell at TESCO has them in Garland. Check the NTMS.org web pages
Equipment Suppliers > where to buy.

Doug KD5OUG

J. Beadles wrote:

>Incidentally, I need four pigtails, N Female Bulkheads to regular
>male SMA, 1 foot, if anybody knows where to get them cheap. I can
>find the RP-SMA connectors, but not regular SMA.
>
>
>

449. Re: KD5ZXG: LNA-6G test

Yahoo group: DAWG-HSMM
Date: 2005-02-15 03:58:19 UTC
From: Ken Peter
Topic: 38 Message: 449

>From: jbeadles@...
>Wow! I'd be interested in running abound with that with a card and
>netstumbler to see what happens. I'm interested to see if the extra
>receive sensitivity adds extra noise againsed the desired signal. I
>see one of those LNA-6Gs on ebay for abt $79. If you can work out
>the components so we could make a cheaper version, that'd be
>massively useful. Maybe do a circulator on the PCB, at least I seem
>to recall that is possible, isn't it?

The Noise Figure (+1.8db) is the ratio of Signal/Noise in the output
over the original Signal/Noise of the input. Considering there is +20db
of RX gain added, that figure seems astonishingly good. Most MMICs
and 802.11 integrated LNAs have noise figures closer to +4db with
much less gain (+12 ~ +16db). Any PIN diode and other losses or
noise in front of the LNA make the situation even worse. It is very
important to have the lowest possible noise in the front end. But
you still have to withstand the high adjacent channel interference
without intermodulation (mixing the two signals non-linearly).

I won my LNA-6G for $39.99 (ebay auction, not "buy now").
They also sell another one thats only good for 2.4ghz and doesn't
cover up to 5.8Ghz, I forget the model of that other unit. I don't
recall there being any price advantage for the lesser model...

In any case. I think we can build something better for cheap.
Even un-optimally input matched to plain old 50ohms, the noise
figure for the FETs that NTMS is floating should beat the LNA-6G.
Properly matched, the noise might even go as low as +0.25db.
And I will be running a pair in quadrature to handle double the
QRM without distorting the signal of interest. Thats the sort of
experiment where I am wanting to go.

I don't think you can print a circulator on a PCB. They have very
strong permanant magnets, and some sort of cavity inside. You
can do 3db hybrid couplers, but thats not quite the same thing.
2.4ghz circulators on ebay are running about $15. You might
also look for "Isolators" the same thing, but with a terminating
restistor on the 3rd port. Sometimes they can be removed.

450. Re: [ntms-hsmm] Re: KD5ZXG: LNA-6G test

Yahoo group: DAWG-HSMM
Date: 2005-02-15 05:33:39 UTC
From: jbeadles@pobox.com
Topic: 38 Message: 450

On 14 Feb 2005 at 21:58, Ken Peter wrote:

>
> >From: jbeadles@...
> >Wow! I'd be interested in running abound with that with a card and
> >netstumbler to see what happens. I'm interested to see if the extra
> >receive sensitivity adds extra noise againsed the desired signal. I
> >see one of those LNA-6Gs on ebay for abt $79. If you can work out
> >the components so we could make a cheaper version, that'd be
> >massively useful. Maybe do a circulator on the PCB, at least I seem
> >to recall that is possible, isn't it?
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> of RX gain added, that figure seems astonishingly good. Most MMICs
> and 802.11 integrated LNAs have noise figures closer to +4db with
> much less gain (+12 ~ +16db). Any PIN diode and other losses or
> noise in front of the LNA make the situation even worse. It is very
> important to have the lowest possible noise in the front end. But
> you still have to withstand the high adjacent channel interference
> without intermodulation (mixing the two signals non-linearly).

I'm not worried about noise figure, so much as received noise from
the hundreds of local APs we will now here.

> In any case. I think we can build something better for cheap.
> Even un-optimally input matched to plain old 50ohms, the noise
> figure for the FETs that NTMS is floating should beat the LNA-6G.
> Properly matched, the noise might even go as low as +0.25db.
> And I will be running a pair in quadrature to handle double the
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> experiment where I am wanting to go.

> I don't think you can print a circulator on a PCB. They have very
> strong permanant magnets, and some sort of cavity inside. You
> can do 3db hybrid couplers, but thats not quite the same thing.
> 2.4ghz circulators on ebay are running about $15. You might
> also look for "Isolators" the same thing, but with a terminating
> restistor on the 3rd port. Sometimes they can be removed.

I don't doubt you are right, I just can't get a particular image out
of my head. I'll do some research. I did see a circulator that HD
communications sells that is a teeny device with solder tabs. Didn't
see a price, though. Incidentally, I do have some 4GHz and 6GHz
waveguide circulators if you are ever in the need.

Here you go, look at this:

http://www.novamicro.com/products/dropincirculator.html

Hm, here's something that's not applicable, but is still interesting:

http://www.wenzel.com/pdffiles/RFDesign3.pdf

451. Re: [ntms-hsmm] More vendors

Yahoo group: DAWG-HSMM
Date: 2005-02-15 05:33:39 UTC
From: jbeadles@pobox.com
Topic: 439 Message: 451

Thanks Doug, I will check that out!

On 14 Feb 2005 at 18:26, Douglas Kilgore wrote:
>
> Ted Buell at TESCO has them in Garland. Check the NTMS.org web pages
> Equipment Suppliers > where to buy.
>
> Doug KD5OUG
>
> J. Beadles wrote:
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> >Incidentally, I need four pigtails, N Female Bulkheads to regular
> >male SMA, 1 foot, if anybody knows where to get them cheap. I can
> >find the RP-SMA connectors, but not regular SMA.

452. RE: [ntms-hsmm] Larger Guage CAT-5 Wire???

Yahoo group: DAWG-HSMM
Date: 2005-02-15 05:41:16 UTC
From: Ken Peter
Topic: 442 Message: 452

Remember the legacy 10base2 BNC connector on old hubs?
We can get our hands on some pretty substantial 50ohm coax.
Sometimes even with an extra strip of wire attatched.
Over generic RG58, the old 10base2 was good to 185Meters.
Imagine how far you could go on RG213 or LMR400!

Then again, if you want to run some real power, you might look
at tacking the problem backwards... Ethernet over powerline.
I don't know the distance limits on that sort of connection.

453. Re: [ntms-hsmm] Re: KD5ZXG: LNA-6G test

Yahoo group: DAWG-HSMM
Date: 2005-02-15 14:20:59 UTC
From: Bob and Debbie Kmak
Topic: 38 Message: 453

> I'm not worried about noise figure, so much as received noise from
> the hundreds of local APs we will now here.

This is the classic problem with adding a preamp in front of receiver: it amplifies everything, and almost always reduces the receiver's ability to reject adjacent channel interference.

In the case of WiFi in a metro area, the interference is also on the same channel, so I don't think the noise figure should be as of much concern as the increased effect from interfering signals.

73,

Bob K5WO

----- Original Message -----
From: <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Monday, February 14, 2005 11:33 PM
Subject: Re: [ntms-hsmm] Re: KD5ZXG: LNA-6G test

>
> On 14 Feb 2005 at 21:58, Ken Peter wrote:
>
> >
> > >From: jbeadles@...
> > >Wow! I'd be interested in running abound with that with a card and
> > >netstumbler to see what happens. I'm interested to see if the extra
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> > without intermodulation (mixing the two signals non-linearly).
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> > In any case. I think we can build something better for cheap.
> > Even un-optimally input matched to plain old 50ohms, the noise
> > figure for the FETs that NTMS is floating should beat the LNA-6G.
> > Properly matched, the noise might even go as low as +0.25db.
> > And I will be running a pair in quadrature to handle double the
> > QRM without distorting the signal of interest. Thats the sort of
> > experiment where I am wanting to go.
>
> > I don't think you can print a circulator on a PCB. They have very
> > strong permanant magnets, and some sort of cavity inside. You
> > can do 3db hybrid couplers, but thats not quite the same thing.
> > 2.4ghz circulators on ebay are running about $15. You might
> > also look for "Isolators" the same thing, but with a terminating
> > restistor on the 3rd port. Sometimes they can be removed.
>
> I don't doubt you are right, I just can't get a particular image out
> of my head. I'll do some research. I did see a circulator that HD
> communications sells that is a teeny device with solder tabs. Didn't
> see a price, though. Incidentally, I do have some 4GHz and 6GHz
> waveguide circulators if you are ever in the need.
>
> Here you go, look at this:
>
> http://www.novamicro.com/products/dropincirculator.html
>
> Hm, here's something that's not applicable, but is still interesting:
>
> http://www.wenzel.com/pdffiles/RFDesign3.pdf
>
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> Yahoo! Groups Links
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454. 05 Hamcom Presentations

Yahoo group: DAWG-HSMM
Date: 2005-02-15 15:43:03 UTC
From: J. Beadles
Topic: 454 Message: 454

All,

I need everybody to be thinking about Hamcom! As programming director, I need to begin the process of locking down the presentations that we're going to have. We have all three days, and we have the convention center until 9pm each night, so we have plenty of time for stuff. Currently I have:

1. Intro to HSMM - Me
2. HSMM for public service events - Me
3. Introduction to IP Networking - KC7IIB
4. Using the WRT54G for HSMM - Me

Joe, are you up for doing the microwave propagation presentation again?

Anybody else? Please? Pretty please with sugar on it?

Also we need to be thinking about how we're going to put an HSMM demo into the convention center. I talked to Doug KD5OUG about this, but he says he may not be available this year.

455. Re: [ntms-hsmm] 05 Hamcom Presentations

Yahoo group: DAWG-HSMM
Date: 2005-02-16 02:55:27 UTC
From: Anthony Campbell
Topic: 454 Message: 455

I think it would be interesting to present a session
or forum on outdoor packaging. Yes, I will volunteer
unless someone else would like to do it.

Tony
W5ADC

--- "J. Beadles" <jbeadles@...> wrote:

>
> All,
>
> I need everybody to be thinking about Hamcom! As
> programming
> director, I need to begin the process of locking
> down the
> presentations that we're going to have. We have all
> three days, and
> we have the convention center until 9pm each night,
> so we have plenty
> of time for stuff. Currently I have:
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> 1. Intro to HSMM - Me
> 2. HSMM for public service events - Me
> 3. Introduction to IP Networking - KC7IIB
> 4. Using the WRT54G for HSMM - Me
>
> Joe, are you up for doing the microwave propagation
> presentation
> again?
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> Anybody else? Please? Pretty please with sugar on
> it?
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> Also we need to be thinking about how we're going to
> put an HSMM demo
> into the convention center. I talked to Doug KD5OUG
> about this, but
> he says he may not be available this year.
>
>
>
>
>
>

456. Power Over Ethernet - My View

Yahoo group: DAWG-HSMM
Date: 2005-02-16 03:50:31 UTC
From: Anthony Campbell
Topic: 456 Message: 456

I have been kind of setting back and watching the discussion about POE. I would like to toss this idea out. First off, lets face it?Ham radio stuff is powered from 12 vdc. If we use anything else we are just looking for trouble unless you go with true spec compliant POE; you know the ?48 vdc stuff. I have been looking around and have found what I think may be a pretty good solution.

National Semiconductor has the LM2585 Simple Switcher 3A Flyback Regulator. These are really simple DC/DC converters. They have both 5 vdc, 12 vdc and adjustable output models. It looks like you can build a unit up with only 10 parts. This circuit would allow for 8 ? 16 vdc input. This will more than accommodate the loss of 300 ft of standard CAT5 cabling and allow the unit to run off a single battery.

OK, so what do you think?

Tony
W5ADC

457. Re: KD5ZXG: LNA-6G test

Yahoo group: DAWG-HSMM
Date: 2005-02-16 07:02:12 UTC
From: Ken Peter
Topic: 38 Message: 457

>In the case of WiFi in a metro area, the interference is also on the same
>channel, so I don't think the noise figure should be as of much concern as
>the increased effect from interfering signals.

Interfering wi-fi transmissions are not continuous.
Ovens maybe....

458. Re: 05 Hamcom Presentations

Yahoo group: DAWG-HSMM
Date: 2005-02-16 17:11:12 UTC
From: J. Beadles
Topic: 454 Message: 458

Thanks Tony!

--- In ntms-hsmm@yahoogroups.com, Anthony Campbell <radiorandr@y...>
wrote:
> I think it would be interesting to present a session
> or forum on outdoor packaging. Yes, I will volunteer
> unless someone else would like to do it.
>
> --- "J. Beadles" <jbeadles@p...> wrote:
>
> > I need everybody to be thinking about Hamcom! As
> > programming
> > director, I need to begin the process of locking
> > down the
> > presentations that we're going to have. We have all
> > three days, and
> > we have the convention center until 9pm each night,
> > so we have plenty
> > of time for stuff. Currently I have:
> >
> > 1. Intro to HSMM - Me
> > 2. HSMM for public service events - Me
> > 3. Introduction to IP Networking - KC7IIB
> > 4. Using the WRT54G for HSMM - Me
> >
> > Joe, are you up for doing the microwave propagation
> > presentation
> > again?
> >
> > Anybody else? Please? Pretty please with sugar on
> > it?
> >
> > Also we need to be thinking about how we're going to
> > put an HSMM demo
> > into the convention center. I talked to Doug KD5OUG
> > about this, but
> > he says he may not be available this year.

459. Re: Power Over Ethernet - My View

Yahoo group: DAWG-HSMM
Date: 2005-02-16 17:52:17 UTC
From: J. Beadles
Topic: 456 Message: 459

--- In ntms-hsmm@yahoogroups.com, Anthony Campbell <radiorandr@y...>
wrote:

> National Semiconductor has the LM2585 Simple Switcher
> 3A Flyback Regulator. These are really simple DC/DC
> converters. They have both 5 vdc, 12 vdc and
> adjustable output models. It looks like you can build
> a unit up with only 10 parts. This circuit would
> allow for 8 ☐ 16 vdc input. This will more than
> accommodate the loss of 300 ft of standard CAT5
> cabling and allow the unit to run off a single
> battery.

Not bad. The max input voltage is only 40v, though it can provide
multiple output voltages and has a 3amp output. Cost is $3.17 ea.
Web page is:

http://www.national.com/pf/LM/LM2585.html

The application notes indicate that it should not need a heat sink in
normal use: I get the following parts counts, not including the
regulator:

1. 1 output flyback: 9 parts
1. 3 output flyback: 14 parts
2. 1 output step up: 9 parts

The flyback versions require a transformer, by the way.

Lookit the LM2592, which puts out 2a with an input up to 60v. Cost is
$2.35. Parts count of about 4, or 9 for an adjustable version.
Needs a heat sink, though. Also radiates, likes ground plane
construction.

http://www.national.com/pf/LM/LM2592HV.html

This one puts out .5a, costs less than a $1 and doesn't require a
heat sink. Would work for a WRT, which burns less than that.

http://www.national.com/ds/LM/LM2574.pdf

Ken, did you get a current drain measurement from those Hawking power
amps?

460. Re: KD5ZXG: LNA-6G test

Yahoo group: DAWG-HSMM
Date: 2005-02-16 18:00:13 UTC
From: J. Beadles
Topic: 38 Message: 460

--- In ntms-hsmm@yahoogroups.com, "Ken Peter" <kenpeter@h...> wrote:
> >In the case of WiFi in a metro area, the interference is also on the same
> >channel, so I don't think the noise figure should be as of much concern as
> >the increased effect from interfering signals.
>
> Interfering wi-fi transmissions are not continuous.
> Ovens maybe....

Yeah, but... Last year Joe and I did a 360 degree rooftop survey and got over 300 APs. In the last month, KC5QHH did a netstumbler survey between work and home and found hundreds and hundreds. The cumulative effect for any given path may be as a continous noise source.

This will make a nifty experiment! Way back in ancient times when I was doing microwave coordination, we had charts of interference effects, adjacent channel and co-channel for different modulations. I'm interested in setting up some interfering point to point paths in different orientations an open field and observing the effects.

If we can get NT5NT set up with a WRT setup on the tower, let's do a couple of drive tests against it, with and without the preamp and record the effects of local interference. That would make an interesting research paper.

461. Re: [ntms-hsmm] Re: KD5ZXG: LNA-6G test

Yahoo group: DAWG-HSMM
Date: 2005-02-16 18:32:50 UTC
From: Douglas Kilgore
Topic: 38 Message: 461

Donj't forget the 2.4 Ghz DSSS phones that are sold by every computer
store and office supply and Sams. They won't show up on NetStumbler.
You need Bob Kmak's 2.4 Ghz spectrum card to see what's going on.

That was what we had problem with at the Plano Ballon Fest.

Doug

Ken Peter wrote:

>>In the case of WiFi in a metro area, the interference is also on the same
>>channel, so I don't think the noise figure should be as of much concern as
>>the increased effect from interfering signals.
>>
>>
>
>Interfering wi-fi transmissions are not continuous.
>Ovens maybe....
>
>
>

462. More on DC/DC Converters and PoE

Yahoo group: DAWG-HSMM
Date: 2005-02-17 01:24:00 UTC
From: Anthony Campbell
Topic: 462 Message: 462

Great email and suggestions on the converters. Help me understand this just a little better.

My initial suggestion was an LM2585. This unit allowed for step-up operation but did require a transformer to do so. But in my premise step-up operation is required to overcome the IR loss in the cable and still use a 12 V battery to power the system.

If you look at the LM2592, it does have a higher input voltage (but why would I care?), but does not seem to offer a step-up option. Did I miss something in the datasheet?

The LM2574 seems to have the same issues.

I guess I have a few questions. I am really hard over on only using 12 vdc as a primary power source. You don't appear to be as concerned about this. What do you think the pro's and con's are? What is the max current we should be designing for?

I guess what I was hoping for is concurrence on a design to use so that we could have some boards made up. In a reasonable quantity these converter could be low cost.

Where do we go from here?

Tony
W5ADC

463. kd5zxg: Hawking hsb1 power draw

Yahoo group: DAWG-HSMM
Date: 2005-02-17 01:41:17 UTC
From: Ken Peter
Topic: 456 Message: 463

>Ken, did you get a current drain measurement from those Hawking amps?

Just now hacked up a power adaptor for ya .
With the Hawking's switch on a 500mW setting:

76mA just sittin there doing nothing.
150~250ma transmitting (bandwidth test).
240~250ma recieving (bandwidth test).
Don't ask me why RX draw is higher than TX?

I didn't see my meter flash any number higher
than 250ma. Thats with the OEM 12V adaptor.
Thats about what? 3Watts drain for 0.5W TX?
My Wavetek27XT was set on a fused 20A scale.
Pegs next lower 200ma scale except when idle.

URL for the bandwith test I used:
http://www.pcpitstop.com/internet/default.asp

464. Re: [ntms-hsmm] kd5zxg: Hawking hsb1 power draw

Yahoo group: DAWG-HSMM
Date: 2005-02-17 02:16:46 UTC
From: jbeadles@pobox.com
Topic: 456 Message: 464

Outstanding! Combining that with 450ma for a WRT, we now know that
we can run both for less than an amp. Might be able to shut the LEDs
off on the WRT and drop it down a bit more. Thanks!

On 16 Feb 2005 at 19:41, Ken Peter wrote:

>
> >Ken, did you get a current drain measurement from those Hawking amps?
>
> Just now hacked up a power adaptor for ya .
> With the Hawking's switch on a 500mW setting:
>
> 76mA just sittin there doing nothing.
> 150~250ma transmitting (bandwidth test).
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> Don't ask me why RX draw is higher than TX?
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> I didn't see my meter flash any number higher
> than 250ma. Thats with the OEM 12V adaptor.
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> URL for the bandwith test I used:
> http://www.pcpitstop.com/internet/default.asp
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> Yahoo! Groups Links
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465. Re: [ntms-hsmm] More on DC/DC Converters and PoE

Yahoo group: DAWG-HSMM
Date: 2005-02-17 02:16:46 UTC
From: jbeadles@pobox.com
Topic: 462 Message: 465

On 16 Feb 2005 at 17:24, Anthony Campbell wrote:

>
> Great email and suggestions on the converters. Help
> me understand this just a little better.
>
> My initial suggestion was an LM2585. This unit
> allowed for step-up operation but did require a
> transformer to do so. But in my premise step-up
> operation is required to overcome the IR loss in the
> cable and still use a 12 V battery to power the
> system.
>
> If you look at the LM2592, it does have a higher input
> voltage (but why would I care?), but does not seem to
> offer a step-up option. Did I miss something in the
> datasheet?
>
> The LM2574 seems to have the same issues.
>
> I guess I have a few questions. I am really hard over
> on only using 12 vdc as a primary power source. You
> don't appear to be as concerned about this. What do
> you think the pro's and con's are? What is the max
> current we should be designing for?
>
> I guess what I was hoping for is concurrence on a
> design to use so that we could have some boards made
> up. In a reasonable quantity these converter could be
> low cost.

Ah, I see where you are going. What we have here is a failure to communicate! You were looking at the step up, while I am looking at the step down on the receive end of the PoE hardware. One of the things to consider, whilst making this decision, is what will happen to commercially available eqpt in the future.

The equipment that we are using now, mostly has no existing PoE capability, so we are having to go through these contortions to make things work. However, now that there is a PoE spec for commercial hardware, we will likely see 48v standard equipment in the future that we will want to use. It seems to me that if that happens, it would be beneficial to have a picker that has the capability of accepting voltages that high. Personally I have found one of the Proxim Harmony 6 port PoE units that puts 24v on the line.

So, what I was looking for was a regulator that would reside on the upstream side that would be capable of accepting any voltage up to 48v. It'd still be totally feasible to use something like the 2754 as a boost regulator, but use something like the 2592 on the upstream side. This would give us the flexibility to use virtually anything that is available, and I see that as an advantage.

On an aside, I opened up one of those little d-link 5 port ethernet switches last night. Looks like the unused pins on the ethernet connectors aren't connected to anything. I'm thinking about wiring an injector right up to them.

466. Re: [ntms-hsmm] More on DC/DC Converters and PoE

Yahoo group: DAWG-HSMM
Date: 2005-02-17 02:28:26 UTC
From: Anthony Campbell
Topic: 462 Message: 466

Very interesting. I think we need to separate this
discussion into two issues. The first is using true
IEEE spec PoE equipment. The paper that was posted
the other day gave a very good explanation of this.
It looked to that that was one of those specs that you
were either fully compliant with or it would not work
at all. Since it does not look like you will just be
able to send -48 vdc up a cable and power the device,
I am not really sure how this should be approached.

I see our/my short term problem is one of having to
power access points, amps and routers that are either
temporarily or permenately mounted up on poles and
roofs. That is why I focused on the requirements of
powering them from 12 vdc. When we get critical mass
on the WRT54G's I could see us stringing these things
along a route to get connectivity from one point to
another on a adhoc basis.

Tony
W5ADC

--- jbeadles@... wrote:

> On 16 Feb 2005 at 17:24, Anthony Campbell wrote:
>
> >
> > Great email and suggestions on the converters.
> Help
> > me understand this just a little better.
> >
> > My initial suggestion was an LM2585. This unit
> > allowed for step-up operation but did require a
> > transformer to do so. But in my premise step-up
> > operation is required to overcome the IR loss in
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> > cable and still use a 12 V battery to power the
> > system.
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> > If you look at the LM2592, it does have a higher
> input
> > voltage (but why would I care?), but does not seem
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> > offer a step-up option. Did I miss something in
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> > datasheet?

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> > The LM2574 seems to have the same issues.
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> > I guess I have a few questions. I am really hard
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> > on only using 12 vdc as a primary power source.
> You
> > don't appear to be as concerned about this. What
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> > you think the pro's and con's are? What is the
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> > current we should be designing for?
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> > I guess what I was hoping for is concurrence on a
> > design to use so that we could have some boards
> made
> > up. In a reasonable quantity these converter
> could be
> > low cost.
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> Ah, I see where you are going. What we have here is
> a failure to
> communicate! You were looking at the step up, while
> I am looking at
> the step down on the receive end of the PoE
> hardware. One of the
> things to consider, whilst making this decision, is
> what will happen
> to commercially available eqpt in the future.
>
> The equipment that we are using now, mostly has no
> existing PoE
> capability, so we are having to go through these
> contortions to make
> things work. However, now that there is a PoE spec
> for commercial
> hardware, we will likely see 48v standard equipment
> in the future
> that we will want to use. It seems to me that if
> that happens, it
> would be beneficial to have a picker that has the
> capability of
> accepting voltages that high. Personally I have
> found one of the
> Proxim Harmony 6 port PoE units that puts 24v on the
> line.
>
> So, what I was looking for was a regulator that
> would reside on the
> upstream side that would be capable of accepting any

> voltage up to
> 48v. It'd still be totally feasible to use
> something like the 2754
> as a boost regulator, but use something like the
> 2592 on the upstream
> side. This would give us the flexibility to use
> virtually anything
> that is available, and I see that as an advantage.
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> On an aside, I opened up one of those little d-link
> 5 port ethernet
> switches last night. Looks like the unused pins on
> the ethernet
> connectors aren't connected to anything. I'm
> thinking about wiring
> an injector right up to them.
>
>

467. Re: [ntms-hsmm] kd5zxg: Hawking hsb1 power draw

Yahoo group: DAWG-HSMM
Date: 2005-02-17 02:30:58 UTC
From: Anthony Campbell
Topic: 456 Message: 467

I agree with the outstanding. I would be interesting
measure the current with somethink that has a quicker
response time than a DVM. The peoks might cause and
switching regulator to shut down.

Just a thought,

Tony
W5ADC

--- jbeadles@... wrote:

> Outstanding! Combining that with 450ma for a WRT,
> we now know that
> we can run both for less than an amp. Might be able
> to shut the LEDs
> off on the WRT and drop it down a bit more. Thanks!
>
> On 16 Feb 2005 at 19:41, Ken Peter wrote:
>
> >
> > >Ken, did you get a current drain measurement from
> those Hawking amps?
> >
> > Just now hacked up a power adaptor for ya .
> > With the Hawking's switch on a 500mW setting:
> >
> > 76mA just sittin there doing nothing.
> > 150~250ma transmitting (bandwidth test).
> > 240~250ma recieving (bandwidth test).
> > Don't ask me why RX draw is higher than TX?
> >
> > I didn't see my meter flash any number higher
> > than 250ma. Thats with the OEM 12V adaptor.
> > Thats about what? 3Watts drain for 0.5W TX?
> > My Wavetek27XT was set on a fused 20A scale.
> > Pegs next lower 200ma scale except when idle.
> >
> > URL for the bandwith test I used:
> > http://www.pcpitstop.com/internet/default.asp
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468. Re: [ntms-hsmm] More on DC/DC Converters and PoE

Yahoo group: DAWG-HSMM
Date: 2005-02-17 03:53:56 UTC
From: jbeadles@pobox.com
Topic: 462 Message: 468

On 16 Feb 2005 at 18:28, Anthony Campbell wrote:

>
> Very interesting. I think we need to separate this
> discussion into two issues. The first is using true
> IEEE spec PoE equipment. The paper that was posted
> the other day gave a very good explanation of this.
> It looked to that that was one of those specs that you
> were either fully compliant with or it would not work
> at all. Since it does not look like you will just be
> able to send -48 vdc up a cable and power the device,
> I am not really sure how this should be approached.

So what has to happen before the 48v is put on the line? I'm looking at both sides - not only having PoE powered gear, but also having the PoE inserters available to us. What has to occur before the juice is turned on?

> I see our/my short term problem is one of having to
> power access points, amps and routers that are either
> temporarily or permenately mounted up on poles and
> roofs. That is why I focused on the requirements of
> powering them from 12 vdc. When we get critical mass
> on the WRT54G's I could see us stringing these things
> along a route to get connectivity from one point to
> another on a adhoc basis.

Don't worry too much about WRTs specifically. If I read it correctly, the regulator in the v2 WRT powers the device at 3.3v. If so, the device should be able to take a substantial drop from 12v and still operate. I don't have a variable PS handy to try it, but will be a useful experiment. Other eqpt may not be so forgiving.

469. Re: kd5zxg: Hawking hsb1 power draw

Yahoo group: DAWG-HSMM
Date: 2005-02-17 03:52:06 UTC
From: Ken Peter
Topic: 456 Message: 469

jbeadles>Outstanding! Combining that with 450ma for a WRT,
>we now know that we can run both for less than an amp.
>Might be able to shut the LEDs off on the WRT and drop it
>down a bit more. Thanks!

For what its worth: My current measurements for the Hawking
were done with an unmodified amplifier and the original dipole.
Not my hack with the add-on RX/TX LEDs. Not with any of my
experimental antennas of unknown SWR.

I guess battery conservation freaks might want to remove the
100/200/500 mW LEDs off the Hawking as well?

470. Re: kd5zxg: Hawking hsb1 power draw

Yahoo group: DAWG-HSMM
Date: 2005-02-17 04:15:46 UTC
From: J. Beadles
Topic: 456 Message: 470

--- In ntms-hsmm@yahoogroups.com, "Ken Peter" <kenpeter@h...> wrote:
> jbeadles>Outstanding! Combining that with 450ma for a WRT,
> >we now know that we can run both for less than an amp.
> >Might be able to shut the LEDs off on the WRT and drop it
> >down a bit more. Thanks!
>
> For what its worth: My current measurements for the Hawking
> were done with an unmodified amplifier and the original dipole.
> Not my hack with the add-on RX/TX LEDs. Not with any of my
> experimental antennas of unknown SWR.
>
> I guess battery conservation freaks might want to remove the
> 100/200/500 mW LEDs off the Hawking as well?

Heh heh heh! Well, 20ma each is 20ma each! Don't suspect it'll be an issue in too many appllications. Been thinking about putting a bridge in one of those high altitude balloon flights for grins and giggles, and nobody'd be up there to see the blinkey lights.

471. 12 Volt 7 AH batteries

Yahoo group: DAWG-HSMM
Date: 2005-02-17 14:28:21 UTC
From: Douglas Kilgore
Topic: 471 Message: 471

I'm working at getting a number of taken-out-of-service 12volt 7 amphour batteries to work with our HSMM project. I'll let you know if they become available.

Doug KD5OUG

472. kd5zxg: dc converters

Yahoo group: DAWG-HSMM
Date: 2005-02-18 03:19:47 UTC
From: Ken Peter
Topic: 471 Message: 472

Strikes me that boosting the full range of 4-48 Volts
up to 48 then back down to 5-15V is rather difficult.
The boost circuits (suggested by National) just don't
adapt over that full range unless you make them a lot
more complicated.

Perhaps its easier to take any POE voltage of 4-48V
down (LM2576HVT-3.3) then back up (LM2577)?
I think you could squeeze out the better part of an amp
pretty easy. No flyback, and only 12 simple discretes.
4 downside, 8 upside. Using pretty much the default
circuits as described in the appnotes.

I am not promoting low voltages over the CAT5, I am
in agreement that 48V POE is the most efficient.. Only
suggesting how the simplest circuit might deal with any
conveniently available voltage seamlessly at the far end.

473. The Case for 24 Volt PoE as an option...

Yahoo group: DAWG-HSMM
Date: 2005-02-18 15:15:50 UTC
From: Randall Dunning
Topic: 471 Message: 473

My system, trailer and all, is 24 volts. To get radio equipment running 12 volts I have to use either a 24V to 12V converter or run my big 4KW 24V to 120V ac inverter and a power supply. Not bad for occasional radio work but the power conversion losses would be exceedingly wasteful to run a WRT, a WET-11 and a Hawking amp or two 24/7. The inverter, which is a VERY efficient unit, would still draw a couple of amps at 24V when running. A 12V to 24V DC converter large enough to power HF and VHF radios has similar conversion losses. Add to that a power supply (yet another "conversion") and my conversion expense would exceed my equipment power requirements several times over!

Since I use 6 75W solar panels and therefore am on a strict power budget (Yes, the trailer has a shore power option) I need to avoid conversion losses. Thus I suggest a solution that allows voltages from 10 to 60 volts as being optimal. Then we don't care what is on the line and are able to make use of whatever power insertion option is available. Then we can use a 16-60V picker to get back to 12V or 5V.

In this case I think creating a PoE transmission line power level standard would be counter productive and would actually work to compromise the mission of providing flexible, field deployable high speed data solutions.

Another point is one of safety. If you read the manuals on field telephony, you will see that 48 volts is the upward bound of what is considered "low power" DC. Never the less, it is really on the top edge of the "safe" DC voltages.

If you look at the efficiency difference going from 12 to 24 volts you get about a 40% increase in efficiency by my reckoning. If you go from 24 to 48 you only get 20 to 25% more efficiency. 24 volts is right smack dab in the center of the "safe" low power DC range and gives, IMHO, the best trade off of efficiency, safety, and ease of use. For "ease of use" I simply point out that it is easier to keep up with a 24 volt serial string of 12 V batteries than a 48v serial string. That is why 24 V is still the most popular low voltage system in the alternative energy community. It is the point where safety, efficiency and ease of use converge.

Some reasonable HSMM equipment friendly calculations for PoE application: 24 watts over Cat 5e (24 AWG) wire @ 50 feet

12 V @ 2.0 a - 51.7% drop: 6.2 V, Delivered : 5.8 V
24 V @ 1.0 a - 12.9% drop: 3.1 V, Delivered : 20.9 V
48 V @ 0.5 a - 3.1% drop: 1.5 V, Delivered : 46.5 V

Cheerio and 0x49!

RD - KC5QHH

* 0x49 is 73 in HEX.

"We love standards. That is
why we have so many of them!"
Anonymous

474. Re: [ntms-hsmm] The Case for 24 Volt PoE as an option...

Yahoo group: DAWG-HSMM
Date: 2005-02-18 18:14:42 UTC
From: Douglas Kilgore
Topic: 471 Message: 474

Remember that you have 2 PAIRS to send POE on Cat5.
So 2 - 24 AWG = 1 - 21 AWG wire.

So for 50 ft Cat5 the down and back length is 100 ft.
Resistance = 100 ft x .0128 ohms/ft = 1.28 ohms.
Voltage drop = E =IR = 2 amps x 1.28 ohms = 2.56 say 2.6 volts
Am I missing something?

So using a 12 volt gel cel which has a discharged voltage of 10.5 volts,
will our equipment work reliably on the reduced voltage?

10.5 - 2..6 = 7.9 volts

I think some of it can. But we will have to test to confirm that.
And if we don't pull the whole 2 amps, the voltage drop is less.

Doug KD5OUG

Randall Dunning wrote:

>Some reasonable HSMM equipment friendly calculations for PoE
>application: 24 watts over Cat 5e (24 AWG) wire @ 50 feet
>
>12 V @ 2.0 a - 51.7% drop: 6.2 V, Delivered : 5.8 V
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>
>

475. RE: [ntms-hsmm] Re: KD5ZXG: LNA-6G test

Yahoo group: DAWG-HSMM
Date: 2005-02-18 19:56:49 UTC
From: John Champa
Topic: 38 Message: 475

Sounds like good material for a follow-up QEX article, if systematically done.

If it is a less rigorous study, it might be good stuff for a CQ VHF article.

In either event, if we don't get the word out and DOCUMENT our test results, we rely on armchair engineering speculation, and goodness knows our HSMM efforts have suffered enough from that already.

73, John - K8OCL

>From: "J. Beadles" <jbeadles@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: ntms-hsmm@yahoogroups.com
>Subject: [ntms-hsmm] Re: KD5ZXG: LNA-6G test
>Date: Wed, 16 Feb 2005 18:00:13 -0000
>

[Non-text portions of this message have been removed]

476. More WRT / APRS project thoughts

Yahoo group: DAWG-HSMM
Date: 2005-02-20 13:34:30 UTC
From: J. Beadles
Topic: 476 Message: 476

Y'know, I was thinking about how to further reduce the cost of a standalone WRT based digi, and something came to mind. A cheap WRT at $49 combined with a TNC-X at $45 potentially results in a total package of less than $100. However, to use the serial ports, you have to add a daughterboard with MAX232 level converter to get the port from TTL level up to RS232 levels. A commercial daughterboard runs about $20, increasing the unit cost.

But looking at the TNC-X, it also uses a MAX232 for line level conversion. Then it occurred to me that as long as you don't need an additional RS232 port for something else, you should just be able to hook the TTL level connections directly together and avoid the level conversion altogether.

It's been mentioned before that the simple thing to do would be to compile digi_ned and attempt to use it. Digi_ned is available here: http://www.qsl.net/digi_ned/. Anybody interested working this angle?

477. Re: [ntms-hsmm] More WRT / APRS project thoughts

Yahoo group: DAWG-HSMM
Date: 2005-02-20 15:20:24 UTC
From: Wes Johnston
Topic: 476 Message: 477

I asked Henk about doing that this week, and he said there's a problem with bigendin and littleendin on the MIPS200 processor vs intel. He and Scott Miller were talking about it too... nothing yet. But it sure would be cool.

Wes
--

Quoting "J. Beadles" <jbeadles@...>:

>
>
> Y'know, I was thinking about how to further reduce the cost of a
> standalone WRT based digi, and something came to mind. A cheap WRT
> at $49 combined with a TNC-X at $45 potentially results in a total
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> Yahoo! Groups Links
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478. Re: [ntms-hsmm] More WRT / APRS project thoughts

Yahoo group: DAWG-HSMM
Date: 2005-02-20 17:05:31 UTC
From: N5TIM
Topic: 476 Message: 478

Check the polarity of the digital signals. Some 232 level converters
invert the data lines. If so a simple nand gate or transistor can take
care of that.

73, John - N5TIM

At 07:34 2/20/2005, you wrote:

>Y'know, I was thinking about how to further reduce the cost of a
>standalone WRT based digi, and something came to mind. A cheap WRT
>at $49 combined with a TNC-X at $45 potentially results in a total
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John - N5TIM
www.qsl.net/n5tim for Public Service Info
http://garland-races.home.comcast.net
JUNK - Stuff we throw away. STUFF - junk we keep.

[Non-text portions of this message have been removed]

479. Re: [ntms-hsmm] More WRT / APRS project thoughts

Yahoo group: DAWG-HSMM
Date: 2005-02-20 20:47:06 UTC
From: Gregg Wonderly
Topic: 476 Message: 479

Wes Johnston wrote:
> I asked Henk about doing that this week, and he said there's a problem with
> bigendin and littleendin on the MIPS200 processor vs intel. He and Scott
> Miller were talking about it too... nothing yet. But it sure would be cool.

There are of course ways to do bit manipulations that make endianess a
non-issue...

Gregg Wonderly
W5GGW

480. Re: More WRT / APRS project thoughts

Yahoo group: DAWG-HSMM
Date: 2005-02-21 02:02:54 UTC
From: J. Beadles
Topic: 476 Message: 480

Yep. They are both max232s, so they should invert the same on either end. I think.

--- In ntms-hsmm@yahoogroups.com, N5TIM <n5tim@c...> wrote:
> Check the polarity of the digital signals. Some 232 level converters
> invert the data lines. If so a simple nand gate or transistor can take
> care of that.
>
> 73, John - N5TIM
>
> At 07:34 2/20/2005, you wrote:
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> JUNK - Stuff we throw away. STUFF - junk we keep.
>
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>
> [Non-text portions of this message have been removed]

481. RE: [ntms-hsmm] More WRT / APRS project thoughts

Yahoo group: DAWG-HSMM
Date: 2005-02-21 02:36:53 UTC
From: A.J. Farmer (AJ3U)
Topic: 476 Message: 481

I started to investigate the WRT after you mentioned it on the APRS-SIG. One stumbling block I have already hit is the change in the Linksys hardware. They are currently on version 3 of the hardware for the WRT. The the end user, there is no difference, but for someone trying to write custom firmware, this can cause a problem.

The Sveasoft and other custom firmware out there only works on v1.0 and v2.0 WRT hardware. Fortunately, I had a v2.0 WRT in my shop. The custom firmware worked great. When I went to get another box for testing, I checked the local stores and they are chock full of v3.0 WRT hardware which will not work. Older WRT's are nowhere to be found. I went ahead and bought a v3.0 box, only to find that the Sveasoft firmware which was working fine on my v2.0 WRT was not compatible with the new v3.0 WRT.

Point of the e-mail is that this WRT based digi is a great idea, but we are relying on Linksys for the hardware. If we get something up and running, it may become obsolete and require a re-code if Linksys decides to change the hardware again. It's not a show-stopper, but just some food for thought.

The porting of Digi_ned sounds like an excellent idea and would definitely jump start this project!

73!

A.J. Farmer, AJ3U
http://www.aj3u.com

-----Original Message-----
From: J. Beadles [mailto:jbeadles@...]
Sent: Sunday, February 20, 2005 8:35 AM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] More WRT / APRS project thoughts

Y'know, I was thinking about how to further reduce the cost of a standalone WRT based digi, and something came to mind. A cheap WRT at $49 combined with a TNC-X at $45 potentially results in a total package of less than $100. However, to use the serial ports, you have to add a daughterboard with MAX232 level converter to get the port from TTL level up to RS232 levels. A commercial daughterboard runs about $20, increasing the unit cost.

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Yahoo! Groups Links

482. RE: [ntms-hsmm] More WRT / APRS project thoughts

Yahoo group: DAWG-HSMM
Date: 2005-02-21 05:10:55 UTC
From: jbeadles@pobox.com
Topic: 476 Message: 482

On 20 Feb 2005 at 21:36, A.J. Farmer (AJ3U) wrote:

> I started to investigate the WRT after you mentioned it on the APRS-SIG.
> One stumbling block I have already hit is the change in the Linksys
> hardware. They are currently on version 3 of the hardware for the WRT. The
> the end user, there is no difference, but for someone trying to write custom
> firmware, this can cause a problem.

Yep, that's absolutely true and no two ways around it. v3! I better
get back on the sveasoft list and read up.

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> WRT hardware. Fortunately, I had a v2.0 WRT in my shop. The custom
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> bought a v3.0 box, only to find that the Sveasoft firmware which was working
> fine on my v2.0 WRT was not compatible with the new v3.0 WRT.

I'm sorry to hear you wound up with a currently untestable v3. A
friend of mine accidentally got the v2.2 and didn't want to buy the
subscription. I already had 7 v2.0s and had a subscription, so I
traded him for a v2.0 and put Alchemy on the v2.2.

Without having studied up on the v3, what I can tell you is that with
the v2.2 (or v1.1 speedbooster) unit, Linksys changed the ethernet
controller, necessitating a new firmware revision. The way Sveasoft
is doing it, they have their "release" firmware, currently titled
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revisions up to v2.0 (or v1.0 of the speedbooster version). Then
they also have their newer pre-release version, "Alchemy", which
works on vthe v2.2 (or v1.1). The pre-release versions are not
publically available, you must have a subscription to get access to
it. I have Alchemy running on one of the v2.2s.

Sveasoft is advertising their planned follow-on firmware, Talisman,
which I think exists only as a plan for now. Talisman would make
their code modular, so that you compile what modules you want to
include in the firmware. They are advertising several "focused"
releases, including a mesh version, a hotspot version and a voip
version. I'm thinking we could get a ham specific version included
if we can define for them what we want.

> Point of the e-mail is that this WRT based digi is a great idea, but we are
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> may become obsolete and require a re-code if Linksys decides to change the
> hardware again. It's not a show-stopper, but just some food for thought.

Yep, that is absolutely true. However, it's not all that bad - The WRT is based on a broadcom reference design and apparently a number of other manufacturers use that design and their units may also be modifyible in this manner.

I've been worrying about just what you are talking about. I came to the conclusion that based on the price point (<$50!) and numbers sold, that even if Linksys ultimately moved to a hardware revision that would not be compatible, it would still be worthwhile to search the used hardware market (ebay) to find one that would work. Rather like impressing old Motorola radios into repeater installations.

Actually this is encouraging to me. I've been half expecting for somebody to tell me why this all wouldn't work at all, and so far that hasn't happened.

> The porting of Digi_ned sounds like an excellent idea and would definitely
> jump start this project!

Sure would! Since I'm not the guy who will be coding this up, you guys will get to correct me, but I've been under the impression that this shouldn't be all that hard to do for one of you hard core linux users. The source for the existing release is available (open source, natch!), so it seems to me that it is a case of getting the right compiler, adding the digi-ned source into the existing firmware source (satori, or alchemy when it is released), along with replacing stty and any other serial port handling software and just recompiling the whole package for that release. Is that a reasonable view of what has to happen?

> -----Original Message-----
> From: J. Beadles [mailto:jbeadles@...]
> Sent: Sunday, February 20, 2005 8:35 AM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] More WRT / APRS project thoughts
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> Y'know, I was thinking about how to further reduce the cost of a
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483. Re: [ntms-hsmm] More WRT / APRS project thoughts

Yahoo group: DAWG-HSMM
Date: 2005-02-21 18:48:26 UTC
From: Bob and Debbie Kmak
Topic: 476 Message: 483

John,

I've started looking pretty seriously at aprsd, and IGate server for Linux. It's what you might call feature-rich, but probably could be stripped down to the needed features and then maybe shoe-horned into the WRT54G memory space.

Does anybody know how much space is available in the WRT54G image? Or a way to query it? I've just subscribed to Sveasoft to get the Alchemy sources; maybe I should ask that question there.

BTW: The cross-compiler for building the WRT54G image comes with the Linksys source package. It's what they call the 'toolkit'. I've been able to build the linksys image on my Linux box, and hope to try it out on my v2.2 WRT54G soon. If that works, then I'll overlay the Alchemy sources, build again, and see if I can get that going...

73,

Bob K5WO

----- Original Message -----
From: <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Sunday, February 20, 2005 11:10 PM
Subject: RE: [ntms-hsmm] More WRT / APRS project thoughts

>
> On 20 Feb 2005 at 21:36, A.J. Farmer (AJ3U) wrote:
>
> > I started to investigate the WRT after you mentioned it on the APRS-SIG.
> > One stumbling block I have already hit is the change in the Linksys
> > hardware. They are currently on version 3 of the hardware for the WRT.
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> their code modular, so that you compile what modules you want to
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> modifyible in this manner.
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> > The porting of Digi_ned sounds like an excellent idea and would
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> > jump start this project!
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> guys will get to correct me, but I've been under the impression that
> this shouldn't be all that hard to do for one of you hard core linux
> users. The source for the existing release is available (open
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> what has to happen?
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> > -----Original Message-----
> > From: J. Beadles [mailto:jbeadles@...]
> > Sent: Sunday, February 20, 2005 8:35 AM
> > To: ntms-hsmm@yahoogroups.com
> > Subject: [ntms-hsmm] More WRT / APRS project thoughts
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484. Re: More WRT / APRS project thoughts

Yahoo group: DAWG-HSMM
Date: 2005-02-21 23:55:39 UTC
From: J. Beadles
Topic: 476 Message: 484

--- In ntms-hsmm@yahoogroups.com, "Bob and Debbie Kmak" <bdkmak@c...>
wrote:
> John,
>
> I've started looking pretty seriously at aprsd, and IGate server
for Linux.
> It's what you might call feature-rich, but probably could be
stripped down
> to the needed features and then maybe shoe-horned into the WRT54G
memory
> space.
>
> Does anybody know how much space is available in the WRT54G image?
Or a way
> to query it? I've just subscribed to Sveasoft to get the Alchemy
sources;
> maybe I should ask that question there.

Again, not being a Linux expert, theoretically you should be able to
telnet into the box and use the usual unix commands to see what is
free. I seem to recall doing something like this, but being unable
to deciper the results.

The Seattle Wireless hardware discussion indicates 16mb of ram, 4mb
of flash on the v2. Other discussions indicate that these are
doubled in the v2.2.

One of the things I've noted about the upcoming Talisman release is
that they are intending to leave a little virtual disk space free for
this sort of thing.

> BTW: The cross-compiler for building the WRT54G image comes with
the Linksys
> source package. It's what they call the 'toolkit'. I've been able
to build
> the linksys image on my Linux box, and hope to try it out on my
v2.2 WRT54G
> soon. If that works, then I'll overlay the Alchemy sources, build
again, and
> see if I can get that going...
>
> 73,
>
> Bob K5WO
>
>

> ----- Original Message -----
> From: <jbeadles@p...>
> To: <ntms-hsmm@yahoogroups.com>
> Sent: Sunday, February 20, 2005 11:10 PM
> Subject: RE: [ntms-hsmm] More WRT / APRS project thoughts
>
>
> >
> > On 20 Feb 2005 at 21:36, A.J. Farmer (AJ3U) wrote:
> >
> > > I started to investigate the WRT after you mentioned it on the
APRS-SIG.
> > > One stumbling block I have already hit is the change in the
Linksys
> > > hardware. They are currently on version 3 of the hardware for
the WRT.
> The
> > > the end user, there is no difference, but for someone trying to
write
> custom
> > > firmware, this can cause a problem.
> >
> > Yep, that's absolutely true and no two ways around it. v3! I
better
> > get back on the sveasoft list and read up.
> >
> > > The Sveasoft and other custom firmware out there only works on
v1.0 and
> v2.0
> > > WRT hardware. Fortunately, I had a v2.0 WRT in my shop. The
custom
> > > firmware worked great. When I went to get another box for
testing, I
> > > checked the local stores and they are chock full of v3.0 WRT
hardware
> which
> > > will not work. Older WRT's are nowhere to be found. I went
ahead and
> > > bought a v3.0 box, only to find that the Sveasoft firmware
which was
> working
> > > fine on my v2.0 WRT was not compatible with the new v3.0 WRT.
> >
> > I'm sorry to hear you wound up with a currently untestable v3. A
> > friend of mine accidentally got the v2.2 and didn't want to buy
the
> > subscription. I already had 7 v2.0s and had a subscription, so I
> > traded him for a v2.0 and put Alchemy on the v2.2.
> >
> > Without having studied up on the v3, what I can tell you is that

with
> > the v2.2 (or v1.1 speedbooster) unit, Linksys changed the ethernet
> > controller, necessitating a new firmware revision. The way
Sveasoft
> > is doing it, they have their "release" firmware, currently titled
> > "Satori", which is made publically available. This handles
hardware
> > revisions up to v2.0 (or v1.0 of the speedbooster version). Then
> > they also have their newer pre-release version, "Alchemy", which
> > works on vthe v2.2 (or v1.1). The pre-release versions are not
> > publically available, you must have a subscription to get access
to
> > it. I have Alchemy running on one of the v2.2s.
> >
> > Sveasoft is advertising their planned follow-on firmware,
Talisman,
> > which I think exists only as a plan for now. Talisman would make
> > their code modular, so that you compile what modules you want to
> > include in the firmware. They are advertising several "focused"
> > releases, including a mesh version, a hotspot version and a voip
> > version. I'm thinking we could get a ham specific version
included
> > if we can define for them what we want.
> >
> > > Point of the e-mail is that this WRT based digi is a great
idea, but we
> are
> > > relying on Linksys for the hardware. If we get something up and
> running, it
> > > may become obsolete and require a re-code if Linksys decides to
change
> the
> > > hardware again. It's not a show-stopper, but just some food for
> thought.
> >
> > Yep, that is absolutely true. However, it's not all that bad -
The
> > WRT is based on a broadcom reference design and apparently a
number
> > of other manufacturers use that design and their units may also be
> > modifyible in this manner.
> >
> > I've been worrying about just what you are talking about. I came
to
> > the conclusion that based on the price point (<$50!) and numbers
> > sold, that even if Linksys ultimately moved to a hardware revision
> > that would not be compatible, it would still be worthwhile to
search
> > the used hardware market (ebay) to find one that would work.
Rather

> > like impressing old Motorola radios into repeater installations.
> >
> > Actually this is encouraging to me. I've been half expecting for
> > somebody to tell me why this all wouldn't work at all, and so far
> > that hasn't happened.
> >
> > > The porting of Digi_ned sounds like an excellent idea and would
> definitely
> > > jump start this project!
> >
> > Sure would! Since I'm not the guy who will be coding this up, you
> > guys will get to correct me, but I've been under the impression
that
> > this shouldn't be all that hard to do for one of you hard core
linux
> > users. The source for the existing release is available (open
> > source, natch!), so it seems to me that it is a case of getting
the
> > right compiler, adding the digi-ned source into the existing
firmware
> > source (satori, or alchemy when it is released), along with
replacing
> > stty and any other serial port handling software and just
recompiling
> > the whole package for that release. Is that a reasonable view of
> > what has to happen?
> >
> > > -----Original Message-----
> > > From: J. Beadles [mailto:jbeadles@p...]
> > > Sent: Sunday, February 20, 2005 8:35 AM
> > > To: ntms-hsmm@yahoogroups.com
> > > Subject: [ntms-hsmm] More WRT / APRS project thoughts
> > >
> > >
> > >
> > > Y'know, I was thinking about how to further reduce the cost of a
> > > standalone WRT based digi, and something came to mind. A cheap
WRT
> > > at $49 combined with a TNC-X at $45 potentially results in a
total
> > > package of less than $100. However, to use the serial ports,
you
> > > have to add a daughterboard with MAX232 level converter to get
the
> > > port from TTL level up to RS232 levels. A commercial
daughterboard
> > > runs about $20, increasing the unit cost.
> > >
> > > But looking at the TNC-X, it also uses a MAX232 for line level
> > > conversion. Then it occurred to me that as long as you don't

need an
> > > additional RS232 port for something else, you should just be
able to
> > > hook the TTL level connections directly together and avoid the
level
> > > conversion altogether.
> > >
> > > It's been mentioned before that the simple thing to do would be
to
> > > compile digi_ned and attempt to use it. Digi_ned is available
here:
> > > http://www.qsl.net/digi_ned/. Anybody interested working this
angle?
> > >
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> > > Yahoo! Groups Links
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> > Yahoo! Groups Links
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485. Fw: LCARES in the Paris News

Yahoo group: DAWG-HSMM
Date: 2005-02-22 01:35:32 UTC
From: N5TIM
Topic: 485 Message: 485

Though all might be interested in this.

73, John - N5TIM

>X-Originating-IP: [66.163.170.7]
>From: "Tom@yahoo" <tomreese46@...>
>To: "Bill Cunningham -- N5VVS" <billdeb@...>,
> "Bill Kirk -- BASF" <kirkwj@...>
>Subject: Fw: LCARES in the Paris News
>Date: Mon, 21 Feb 2005 10:39:47 -0800
>X-Mailer: Microsoft Outlook Express 6.00.2800.1478
>
>
>----- Original Message -----
>From: <mailto:jkeisler@...>Jerry Keisler
>To: <mailto:jkeisler@...>RRVARC
>Sent: Sunday, February 20, 2005 3:47 PM
>Subject: LCARES in the Paris News
>
>Found this in Sunday's Paris News.
>4e96c83.jpg
>
><mailto:sam.craft@...>Photo by Sam Craft
>
>
>County's storm spotters go high-tech
>
><mailto:sara.stanglin@...>By Sara Stanglin
>The Paris News
>
>Published February 20, 2005
>
>Wireless technology now provides Lamar County with early storm warning,
>and that could someday save lives.
>
>Lamar County Amateur Radio Emergency Service members have successfully
>field-tested a new Internet access system. The system, which was tested
>last weekend, advances response times for issuing weather warnings.
>
>The project is the first of its kind in the country, with the National
>Weather Service using it in East Texas and Louisiana. The test introduced
>new Spiderweb Meshbox technology, systems used by online communication
>companies, to the tools spotters use.
>
>Currently, the weather service requires two spotters to see a tornado

>before a warning is issued. Precious seconds, sometimes minutes, can be
>lost while waiting for confirmation.
>
>"It can often take several minutes before a storm is close enough to a
>second spotter for a good sighting," said Leo Salas, National Association
>for Amateur Radio emergency coordinator for Lamar County. "For anyone in
>the path of the storm, a few extra minutes could be the difference between
>life and death."
>
>With the Meshboxes, the first spotter is able to use a Webcam and the
>Internet to broadcast live video of the storm to the emergency operations
>center and the weather service.
>
>The person at the second location becomes the second spotter. Able to
>confirm the sighting, the warning goes out immediately.
>
>Salas, who works for Star-Net Online Systems, saw his employer using the
>Meshboxes for other online purposes and realized the potential for the
>creation of an advanced weather warning system. He shared his ideas with
>the company's president, Larry Rhea, who agreed to donate a Meshbox and
>help set up the system.
>
>The two decided to strategically place the new Meshbox on top of Paris
>Regional Medical Center's south campus for the widest area of coverage.
>This location provides access for spotters in downtown as well as east and
>south of the loop. Rhea has also made company boxes in eastern and
>northern Lamar County accessible to spotters.
>
>Meshbox technology is designed so that it can expand into adjoining
>counties, creating an extensive network.
>
>"We are working with officials in Hunt County to set up a similar system
>there," Rhea said. "Now that we've had a successful test, others are
>looking at Lamar County for this groundbreaking technology."
>
>In addition, spotters with the proper equipment can use the Internet to
>access the the Weather Service's radar while performing storm-spotting
>duties, allowing them to follow the progress of severe storms as they approach
>
>Instant-messaging communication is also available. The new system connects
>mobile spotters using laptops computers, personal digital assistants with
>cameras, wireless Internet adapters and runs on available instant
>messaging software.
>
>In the past, the City of Paris and the Weather Service relied on spotter
>reports via radio and telephone. The new technology is much faster.

John - N5TIM
www.qsl.net/n5tim for Public Service Info
http://garland-races.home.comcast.net

JUNK - Stuff we throw away. STUFF - junk we keep.

[Non-text portions of this message have been removed]

486. Re: [ntms-hsmm] Fw: LCARES in the Paris News

Yahoo group: DAWG-HSMM
Date: 2005-02-22 05:40:40 UTC
From: Douglas Kilgore
Topic: 485 Message: 486

This is the same equipment the WWW.biovlan.com in North Dallas is using. The mesh network uses type accepted equipment and uses 2048 bit encription. A ham radio operator can operate under part 15 as Joe Citizen but if he adapts the equipment or uses a non-type accepted system, doesn't this mean he is operating under part 97? And how can a ham use encription?

Tis a puzzlement!

Doug KD5OUG

N5TIM wrote:

>Though all might be interested in this.
>
>73, John - N5TIM
>
>
>
>
>>X-Originating-IP: [66.163.170.7]
>>From: "Tom@yahoo" <tomreese46@...>
>>To: "Bill Cunningham -- N5VVS" <billdeb@...>,
>> "Bill Kirk -- BASF" <kirkwj@...>
>>Subject: Fw: LCARES in the Paris News
>>Date: Mon, 21 Feb 2005 10:39:47 -0800
>>X-Mailer: Microsoft Outlook Express 6.00.2800.1478
>>
>>
>>----- Original Message -----
>>From: <mailto:jkeisler@...>Jerry Keisler
>>To: <mailto:jkeisler@...>RRVARC
>>Sent: Sunday, February 20, 2005 3:47 PM
>>Subject: LCARES in the Paris News
>>
>>Found this in Sunday's Paris News.
>>4e96c83.jpg
>>
>><mailto:sam.craft@...>Photo by Sam Craft
>>
>>
>>County's storm spotters go high-tech
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>>Published February 20, 2005
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>>
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>>for Amateur Radio emergency coordinator for Lamar County. "For anyone in
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>>
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>>center and the weather service.
>>
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>>
>>Salas, who works for Star-Net Online Systems, saw his employer using the
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>>creation of an advanced weather warning system. He shared his ideas with
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>>help set up the system.
>>
>>The two decided to strategically place the new Meshbox on top of Paris
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>>This location provides access for spotters in downtown as well as east and
>>south of the loop. Rhea has also made company boxes in eastern and
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>>
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>>

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>>
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>>
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>>reports via radio and telephone. The new technology is much faster.
>>
>>
>
>John - N5TIM
>www.qsl.net/n5tim for Public Service Info
>http://garland-races.home.comcast.net
>JUNK - Stuff we throw away. STUFF - junk we keep.
>
>
>
>[Non-text portions of this message have been removed]
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>Yahoo! Groups Links
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487. (Fwd) RE: [ntx_aprs_ug] Re: wrt54gs

Yahoo group: DAWG-HSMM
Date: 2005-02-22 13:32:04 UTC
From: jbeadles@pobox.com
Topic: 487 Message: 487

From the ntx_aprs_ug group...

------- Forwarded message follows -------
To: <ntx_aprs_ug@yahoogroups.com>
From: "AE5PL Lists" <HamLists@...>

I have compiled javAPRSSrvr using gcj with the Pentium as the target. The size was just over 1 megabyte. If someone wants to compile it for the WRT54G, I will be happy to help get them the correct code for experimentation. Here we have the ability to have a complete APRS server, IGate, and digipeater in one network appliance. And, there is some work going on right now that puts a Winlink TelPac node on Linux. If both would fit, that would be quite a useful ham radio tool indeed.

73,

Pete Loveall AE5PL
mailto:pete@...

> -----Original Message-----
> From: jbeadles@... [mailto:jbeadles@...]
> Posted At: Sunday, February 13, 2005 9:29 AM
> Subject: Re: [ntx_aprs_ug] Re: wrt54gs
>
> That's what happens when I write stuff off the cuff. I meant
> to say, I suspect there is more room then that left in there.
> How big is the JVM?

------- End of forwarded message -------

---------- Enclosure number 1 ----------
* This message contains the file '-', which has been
* uuencoded. If you are using Pegasus Mail, then you can use
* the browser's eXtract function to lift the original contents
* out to a file, otherwise you will have to extract the message
* and uudecode it manually.

begin 660 WPM$43F0.PM$
M#0I)(&AA=F4@8V]M<&EL960@:F%V05!24U-R=G(@=7-I;F<@9V-J('=I=&@@
M=&AE(%!E;G1I=6T@87,@=&AE('1A<F=E="X-"E1H92!S:7IE('=A<R!J=7-T
M(&]V97(@,2!M96=A8GET92X@($EF('-O;65O;F4@=V%N=',@=&\@8V]M<&EL
M92!I="!F;W(-"G1H92!74E0U-$<L($D@=VEL;"!B92!H87!P>2!T;R!H96QP
M(&=E="!T:&5M('1H92!C;W)R96-T(&-O9&4@9F]R#0IE>'!E<FEM96YT871I
M;VXN("!(97)E('=E(&AA=F4@=&AE(&%B:6QI='D@=&\@:&%V92!A(&-O;7!L
M971E($%04E,-"G-E<G9E<BP@24=A=&4L(&%N9"!D:6=I<&5A=&5R(&EN(&]N
M92!N971W;W)K(&%P<&QI86YC92X@($%N9"P@=&AE<F4@:7,-"G-O;64@=V]R
M:R!G;VEN9R!O;B!R:6=H="!N;W<@=&AA="!P=71S(&$@5VEN;&EN:R!496Q0

```
M86,@;F]D92!O;B!,:6YU>"X-"DEF(&)O=&@@=V]U;&0@9FET+"!T:&%T('=O
M=6QD(&)E('%U:71E(&$@=7-E9G5L(&AA;2!R861I;R!T;V]L(&EN9&5E9"X-
M"@T*-S,L#0H-"E!E=&4@3&]V96%L;"!!13503`T*;6%I;'1O.G!E=&5`864U
M<&PN;F5T("`-"@T*/B`M+2TM+4]R:6=I;F%L($UE<W-A9V4M+2TM+0T*/B!&
M<F]M.B!J8F5A9&QE<T!P;V)O>"YC;VT@6VUA:6QT;SIJ8F5A9&QE<T!P;V)O
M>"YC;VU=(`T*/B!0;W-T960@070Z(%-U;F1A>2P@1F5B<G5A<GD@,3,L(#(P
M,#4@.3HR.2!!30T*/B!3=6)J96-T.B!293H@6VYT>%]A<')S7W5G72!293H@
M=W)T-31G<PT*/B`-"CX@5&AA="=S('=H870@:&%P<&5N<R!W:&5N($D@=W)I
M=&4@<W1U9F8@;V9F('1H92!C=69F+B`@22!M96%N="`-"CX@=&\@<V%Y+"!)
M('-U<W!E8W0@=&AE<F4@:7,@;6]R92!R;V]M('1H96X@=&AA="!L969T(&EN
M('1H97)E+B`-"CX@($AO=R!B:6<@:7,@=&AE($I633\-"@T*#0H@#0I986AO
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M+V=R;W5P+VYT>%]A<')S7W5G+PT*#0H\*CX@5&\@=6YS=6)S8W)I8F4@9G)O
M;2!T:&ES(&=R;W5P+"!S96YD(&%N(&5M86EL('1O.@T*("`@(&YT>%]A<')S
M7W5G+75N<W5B<V-R:6)E0'EA:&]O9W)O=7!S+F-O;0T*#0H\*CX@66]U<B!U
M<V4@;V8@66%H;V\A($=R;W5P<R!I<R!S=6)J96-T('1O.@T*("`@(&AT='`Z
G+R]D;V-S+GEA:&]O+F-O;2]I;F9O+W1E<FUS+PT*(`T*#0H-"@T*
`
end
```

488. Re: More WRT / APRS project thoughts

Yahoo group: DAWG-HSMM
Date: 2005-02-22 18:13:01 UTC
From: J. Beadles
Topic: 476 Message: 488

--- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)"
<ajfarmer@s...> wrote:
> I started to investigate the WRT after you mentioned it on the APRS-
SIG.
> One stumbling block I have already hit is the change in the Linksys
> hardware. They are currently on version 3 of the hardware for the
WRT. The
> the end user, there is no difference, but for someone trying to
write custom
> firmware, this can cause a problem.

Hey A.J., can you verify the v3.0 hardware? I'm seeing on the
sveasoft list where somebody else mistook a v3x firmware load for a
hardware revision, but it was really v2.2. I'm not doubting you,
just thinking that it's worth a look.

489. WRT power regulator

Yahoo group: DAWG-HSMM
Date: 2005-02-22 18:14:24 UTC
From: J. Beadles
Topic: 489 Message: 489

Somebody on the Sveasoft link accidentally burned up their Anachip regulator. This Mouser link was posted in response:

http://www.mouser.com/index.cfm?
&handler=data.listcategory&Dk=1&Ns=SField&N=500+52220000&crc=true

490. RE: [ntms-hsmm] Re: More WRT / APRS project thoughts

Yahoo group: DAWG-HSMM
Date: 2005-02-22 18:29:50 UTC
From: A.J. Farmer (AJ3U)
Topic: 476 Message: 490

Yes, it is definitely 3.0. The serial number starts with a 7 (compared to a 5 for the 2.2 version). I don't have it in front of me right now to give you the exact serial number format, but the "7" sticks in my mind. The box would not accept the Satori or Alchemy firmware. It rejected the upload.

On the Linksys support page, they now have four different firmware images for download for the WRT54G - v1, v2, v2.2, and v3. They also have v3 GPL code available for download.

I don't know what is different about the hardware at this point. I'll investigate further and post my results and some pictures of the v3 board.

73!

A.J. Farmer, AJ3U
http://www.aj3u.com

-----Original Message-----
From: J. Beadles [mailto:jbeadles@...]
Sent: Tuesday, February 22, 2005 1:13 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: More WRT / APRS project thoughts

--- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)"
<ajfarmer@s...> wrote:
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> hardware. They are currently on version 3 of the hardware for the
WRT. The
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write custom
> firmware, this can cause a problem.

Hey A.J., can you verify the v3.0 hardware? I'm seeing on the sveasoft list where somebody else mistook a v3x firmware load for a hardware revision, but it was really v2.2. I'm not doubting you, just thinking that it's worth a look.

Yahoo! Groups Links

491. Re: More WRT / APRS project thoughts

Yahoo group: DAWG-HSMM
Date: 2005-02-22 18:35:31 UTC
From: J. Beadles
Topic: 476 Message: 491

Ok. Well, it was a shot. Pics and major part IDs would be very
helpful. Thanks!

--- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)"
<ajfarmer@s...> wrote:
> Yes, it is definitely 3.0. The serial number starts with a 7
(compared to a
> 5 for the 2.2 version). I don't have it in front of me right now
to give
> you the exact serial number format, but the "7" sticks in my mind.
The box
> would not accept the Satori or Alchemy firmware. It rejected the
upload.
>
> On the Linksys support page, they now have four different firmware
images
> for download for the WRT54G - v1, v2, v2.2, and v3. They also have
v3 GPL
> code available for download.
>
> I don't know what is different about the hardware at this point.
I'll
> investigate further and post my results and some pictures of the v3
board.
>
> 73!
>
> A.J. Farmer, AJ3U
> http://www.aj3u.com
>
>
> -----Original Message-----
> From: J. Beadles [mailto:jbeadles@p...]
> Sent: Tuesday, February 22, 2005 1:13 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Re: More WRT / APRS project thoughts
>
>
>
> --- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)"
> <ajfarmer@s...> wrote:
> > I started to investigate the WRT after you mentioned it on the
APRS-
> SIG.
> > One stumbling block I have already hit is the change in the

Linksys
> > hardware. They are currently on version 3 of the hardware for
the
> WRT. The
> > the end user, there is no difference, but for someone trying to
> write custom
> > firmware, this can cause a problem.
>
> Hey A.J., can you verify the v3.0 hardware? I'm seeing on the
> sveasoft list where somebody else mistook a v3x firmware load for a
> hardware revision, but it was really v2.2. I'm not doubting you,
> just thinking that it's worth a look.
>
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> Yahoo! Groups Links

492. Link: Tuning long distance links

Yahoo group: DAWG-HSMM
Date: 2005-02-22 18:46:33 UTC
From: J. Beadles
Topic: 492 Message: 492

I hate posting a link that many people won't be able to see, but this sveasoft subscriber forum link is too useful. I'm hoping that those of us who have access to the forum will go over it and develop a spec for our own use.

http://www.sveasoft.com/modules/phpBB2/viewtopic.php?t=2095&highlight=50us

Here are some of the freely available links in the discussion

http://lists.bawug.org/pipermail/wireless/2003-July/012814.html

http://www.alvarion-usa.com/RunTime/Materials/KnowledgePoolFiles/alv_OFDM%20wp.pdf

http://www.oreillynet.com/pub/a/wireless/2003/08/08/wireless_throughput.html?page=2

http://home.student.uu.se/j/jolo4453/projekt/tcpip1/tcp_fut.htm

A TAPR source on propagation
http://www.tapr.org/tapr/pdf/dcc97.ve3jf.pdf

493. KD5ZXG: GPS Board?

Yahoo group: DAWG-HSMM
Date: 2005-02-23 08:28:56 UTC
From: Ken Peter
Topic: 492 Message: 493

Anyone use one of these GPS boards before?
Any caveats other than active antenna requirement?

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&rd=1&item=3876244510&ssPageName=STRK:MEWA:IT

494. Re: [ntms-hsmm] KD5ZXG: GPS Board?

Yahoo group: DAWG-HSMM
Date: 2005-02-23 11:45:09 UTC
From: Wes Johnston
Topic: 492 Message: 494

180mA?, yikes. Also, looks like a metric pitch spacing 20 pin header. I'm concerned that you'll spend money getting the antenna connector and connection header that will bring it up on a par with a garmin GPS 18.... The serial port polarity is likely to be "upside down" too, necessitating a max232 converter. The 1pps is nice though... I have a GPS with 1pps and wired it to an LED so I know when the critter has a fix.

Wes
--

Quoting Ken Peter <kenpeter@...>:

>
> Anyone use one of these GPS boards before?
> Any caveats other than active antenna requirement?
>
>
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&rd=1&item=3876244510&ssPageName=STRK:MEWA:IT
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> Yahoo! Groups Links
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495. Re: [ntms-hsmm] KD5ZXG: GPS Board?

Yahoo group: DAWG-HSMM
Date: 2005-02-23 13:29:27 UTC
From: jbeadles@pobox.com
Topic: 492 Message: 495

The mark "axiom" was a valid GPS mfgr, though they seem to be out of business. Seems to have reasonable specs. I'd probably try one of these.

On 23 Feb 2005 at 2:28, Ken Peter wrote:

>
> Anyone use one of these GPS boards before?
> Any caveats other than active antenna requirement?
>
>
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&rd=1&item=3876244510&ssPageName=STRK:MEWA:IT

496. Something on the TNC-X front...

Yahoo group: DAWG-HSMM
Date: 2005-02-23 21:38:45 UTC
From: J. Beadles
Topic: 496 Message: 496

Looking at attaching a TNC-X to the WRT. A TNC-X is a kiss-only TNC that runs about $45 in kit form.

http://www.coastalchipworks.com/PICTNC.htm

One of the things I've been worried about is, does the TNC require any serial port handshaking. Survey says, "no!" In fact, it requires no handshaking at all. So this should be ideal for hooking to a WRT serial port. I put in my order for one.

497. Re: [ntms-hsmm] Something on the TNC-X front...

Yahoo group: DAWG-HSMM
Date: 2005-02-23 21:47:00 UTC
From: J. Lance Cotton
Topic: 496 Message: 497

On Wed, 23 Feb 2005 21:38:45 -0000, J. Beadles <jbeadles@...> wrote:
> Looking at attaching a TNC-X to the WRT. A TNC-X is a kiss-only TNC
> that runs about $45 in kit form.
>
> http://www.coastalchipworks.com/PICTNC.htm
>
> One of the things I've been worried about is, does the TNC require
> any serial port handshaking. Survey says, "no!" In fact, it
> requires no handshaking at all. So this should be ideal for hooking
> to a WRT serial port. I put in my order for one.

Not only does KISS mode "not require" handshaking, it "demands no" handshaking.
--
J. Lance Cotton, KJ5O
joe@...
http://kj5o.lightningflash.net
Three Step Plan: 1. Take over the world. 2. Get a lot of cookies. 3.
Eat the cookies.

498. Re: [ntms-hsmm] Something on the TNC-X front...

Yahoo group: DAWG-HSMM
Date: 2005-02-24 00:28:49 UTC
From: Wes Johnston
Topic: 496 Message: 498

Your tale gets even better.... the TNC-x can be jumper selectable between TTL and rs232... so you don't need to make the rs232 daughter board for the wrt54.

Wes
--

Quoting "J. Beadles" <jbeadles@...>:

>
>
> Looking at attaching a TNC-X to the WRT. A TNC-X is a kiss-only TNC
> that runs about $45 in kit form.
>
> http://www.coastalchipworks.com/PICTNC.htm
>
> One of the things I've been worried about is, does the TNC require
> any serial port handshaking. Survey says, "no!" In fact, it
> requires no handshaking at all. So this should be ideal for hooking
> to a WRT serial port. I put in my order for one.
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> Yahoo! Groups Links
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499. Re: [ntms-hsmm] Something on the TNC-X front...

Yahoo group: DAWG-HSMM
Date: 2005-02-24 01:04:27 UTC
From: jbeadles@pobox.com
Topic: 496 Message: 499

Gotta love it when a plan comes together!

On 23 Feb 2005 at 19:28, Wes Johnston wrote:
>
> Your tale gets even better.... the TNC-x can be jumper selectable between TTL
> and rs232... so you don't need to make the rs232 daughter board for the wrt54.
>
> Quoting "J. Beadles" <jbeadles@...>:
> >
> > Looking at attaching a TNC-X to the WRT. A TNC-X is a kiss-only TNC
> > that runs about $45 in kit form.
> >
> > http://www.coastalchipworks.com/PICTNC.htm
> >
> > One of the things I've been worried about is, does the TNC require
> > any serial port handshaking. Survey says, "no!" In fact, it
> > requires no handshaking at all. So this should be ideal for hooking
> > to a WRT serial port. I put in my order for one.

500. RE: [ntms-hsmm] Something on the TNC-X front...

Yahoo group: DAWG-HSMM
Date: 2005-02-24 01:17:18 UTC
From: AE5PL Lists
Topic: 496 Message: 500

If you get kernel ax.25 support to work with the libax25 tool library, I am going to post a jar file to the javAPRSSrvr users group which compiles under gcj. The compiled code is just a bit over 1 meg for a Pentium. Anyone who wants to try and compile and test it for the WRT can contact me directly and I will get you set up. If this gets put on a WRT, you will have an APRS server, IGate, and digipeater (capable of N-n and no-source-route digipeating) in a network appliance.

73,

Pete Loveall AE5PL
mailto:pete@ae5pl.net

> -----Original Message-----
> From: jbeadles@... [mailto:jbeadles@...]
> Posted At: Wednesday, February 23, 2005 7:02 PM
> Subject: Re: [ntms-hsmm] Something on the TNC-X front...
>
> Gotta love it when a plan comes together!
>
> On 23 Feb 2005 at 19:28, Wes Johnston wrote:
> >
> > Your tale gets even better.... the TNC-x can be jumper selectable
> > between TTL and rs232... so you don't need to make the
> rs232 daughter board for the wrt54.

501. WRT54G Version 3 Hardware Pictures

Yahoo group: DAWG-HSMM
Date: 2005-02-24 01:36:56 UTC
From: A.J. Farmer (AJ3U)
Topic: 496 Message: 501

As promised, here are pictures of the V.3 WRT54G hardware:

http://www.aj3u.com/photos/thumbnails.php?album=34

I'll let you hard core hardware guys interpret the changes. ;-)

73!

A.J. Farmer, AJ3U
http://www.aj3u.com

502. Re: [ntms-hsmm] Something on the TNC-X front...

Yahoo group: DAWG-HSMM
Date: 2005-02-24 01:41:26 UTC
From: N5TIM
Topic: 496 Message: 502

I have had a TNC-X for quite a while. I use it with an old laptop (serial port) running UI-View. All works great. I cobbed up a USB cable to furnish +5V to the unit. Jon also has an add-on for full USB operation. Kit is very easy to build and came up on the first try.

73, John
At 15:38 2/23/2005, you wrote:

>Looking at attaching a TNC-X to the WRT. A TNC-X is a kiss-only TNC
>that runs about $45 in kit form.
>
>http://www.coastalchipworks.com/PICTNC.htm
>
>One of the things I've been worried about is, does the TNC require
>any serial port handshaking. Survey says, "no!" In fact, it
>requires no handshaking at all. So this should be ideal for hooking
>to a WRT serial port. I put in my order for one.
>
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>Yahoo! Groups Links
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John - N5TIM
www.qsl.net/n5tim for Public Service Info
http://garland-races.home.comcast.net
JUNK - Stuff we throw away. STUFF - junk we keep.

[Non-text portions of this message have been removed]

503. Re: [ntms-hsmm] Something on the TNC-X front...

Yahoo group: DAWG-HSMM
Date: 2005-02-24 01:46:03 UTC
From: Bob and Debbie Kmak
Topic: 496 Message: 503

Pete,

1 meg? I don't think we have that kind of room on the WRT54G. Does javAPRSSrvr also require the Java Virtual Machine? That would be another problem. I'm not even sure there is a Java cross-compiler for the Broadcom MIPS cpu.

Am I missing something obvious?

73,

Bob K5WO

----- Original Message -----
From: "AE5PL Lists" <HamLists@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Wednesday, February 23, 2005 7:17 PM
Subject: RE: [ntms-hsmm] Something on the TNC-X front...

>
> If you get kernel ax.25 support to work with the libax25 tool library, I
> am going to post a jar file to the javAPRSSrvr users group which
> compiles under gcj. The compiled code is just a bit over 1 meg for a
> Pentium. Anyone who wants to try and compile and test it for the WRT
> can contact me directly and I will get you set up. If this gets put on
> a WRT, you will have an APRS server, IGate, and digipeater (capable of
> N-n and no-source-route digipeating) in a network appliance.
>
> 73,
>
> Pete Loveall AE5PL
> mailto:pete@...
>
> > -----Original Message-----
> > From: jbeadles@... [mailto:jbeadles@...]
> > Posted At: Wednesday, February 23, 2005 7:02 PM
> > Subject: Re: [ntms-hsmm] Something on the TNC-X front...
> >
> > Gotta love it when a plan comes together!
> >
> > On 23 Feb 2005 at 19:28, Wes Johnston wrote:
> > >
> > > Your tale gets even better.... the TNC-x can be jumper selectable
> > > between TTL and rs232... so you don't need to make the
> > rs232 daughter board for the wrt54.
>

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> Yahoo! Groups Links
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504. Re: [ntms-hsmm] WRT54G Version 3 Hardware Pictures

Yahoo group: DAWG-HSMM
Date: 2005-02-24 02:39:40 UTC
From: jbeadles@pobox.com
Topic: 496 Message: 504

Yep, that's different. A.J., you mind if I throw that link out on the Sveasoft forum?

On 23 Feb 2005 at 20:36, A.J. Farmer (AJ3U) wrote:

>
> As promised, here are pictures of the V.3 WRT54G hardware:
>
> http://www.aj3u.com/photos/thumbnails.php?album=34
>
> I'll let you hard core hardware guys interpret the changes. ;-)
>
> 73!
>
> A.J. Farmer, AJ3U
> http://www.aj3u.com
>
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> Yahoo! Groups Links
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505. RE: [ntms-hsmm] Something on the TNC-X front...

Yahoo group: DAWG-HSMM
Date: 2005-02-24 02:54:42 UTC
From: AE5PL Lists
Topic: 496 Message: 505

gcj is a compiler which takes Java source or intermediate (class) code and converts it to machine code. It is based on, uses, and is included with gcc. Therefore, it should be able to cross-compile to the MIPS cpu. There is no JVM required. The 1 meg is based on compiling for the Pentium. I would guess a little variance for the MIPS, but not significant.

Should only a digipeater be needed, we could create a server "stub" which would eliminate the server and IGate functionality. However, I believe it would be of best use to be able to provide all three services in an HSMM environment.

73,

Pete Loveall AE5PL
mailto:pete@...

> -----Original Message-----
> From: Bob and Debbie Kmak [mailto:bdkmak@...]
> Posted At: Wednesday, February 23, 2005 7:59 PM
> Subject: Re: [ntms-hsmm] Something on the TNC-X front...
>
> 1 meg? I don't think we have that kind of room on the WRT54G.
> Does javAPRSSrvr also require the Java Virtual Machine? That
> would be another problem. I'm not even sure there is a Java
> cross-compiler for the Broadcom MIPS cpu.
>
> Am I missing something obvious?

506. RE: [ntms-hsmm] WRT54G Version 3 Hardware Pictures

Yahoo group: DAWG-HSMM
Date: 2005-02-24 03:00:52 UTC
From: A.J. Farmer (AJ3U)
Topic: 496 Message: 506

Sure, go right ahead.

A.J.

-----Original Message-----
From: jbeadles@... [mailto:jbeadles@...]
Sent: Wednesday, February 23, 2005 9:40 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] WRT54G Version 3 Hardware Pictures

Yep, that's different. A.J., you mind if I throw that link out on
the Sveasoft forum?

On 23 Feb 2005 at 20:36, A.J. Farmer (AJ3U) wrote:

>
> As promised, here are pictures of the V.3 WRT54G hardware:
>
> http://www.aj3u.com/photos/thumbnails.php?album=34
>
> I'll let you hard core hardware guys interpret the changes. ;-)
>
> 73!
>
> A.J. Farmer, AJ3U
> http://www.aj3u.com
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> Yahoo! Groups Links
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Yahoo! Groups Links

507. Re: [ntms-hsmm] Something on the TNC-X front...

Yahoo group: DAWG-HSMM
Date: 2005-02-24 11:56:34 UTC
From: Wes Johnston
Topic: 496 Message: 507

I wonder if the TTL levels are 5v tolerant? You know, since the WRT runs on 3.3
v internally.

Wes
--

Quoting jbeadles@...:

>
> Gotta love it when a plan comes together!
>
> On 23 Feb 2005 at 19:28, Wes Johnston wrote:
> >
> > Your tale gets even better.... the TNC-x can be jumper selectable between
> TTL
> > and rs232... so you don't need to make the rs232 daughter board for the
> wrt54.
> >
> > Quoting "J. Beadles" <jbeadles@...>:
> > >
> > > Looking at attaching a TNC-X to the WRT. A TNC-X is a kiss-only TNC
> > > that runs about $45 in kit form.
> > >
> > > http://www.coastalchipworks.com/PICTNC.htm
> > >
> > > One of the things I've been worried about is, does the TNC require
> > > any serial port handshaking. Survey says, "no!" In fact, it
> > > requires no handshaking at all. So this should be ideal for hooking
> > > to a WRT serial port. I put in my order for one.
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> Yahoo! Groups Links
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508. Re: [ntms-hsmm] Something on the TNC-X front...

Yahoo group: DAWG-HSMM
Date: 2005-02-24 13:46:02 UTC
From: jbeadles@pobox.com
Topic: 496 Message: 508

Ahhhh, yeah, valid point. Hm.

On 24 Feb 2005 at 6:56, Wes Johnston wrote:

> I wonder if the TTL levels are 5v tolerant? You know, since the WRT runs on 3.3
> v internally.
>
> Wes
> --
>
>
>
> Quoting jbeadles@...:
>
> >
> > Gotta love it when a plan comes together!
> >
> > On 23 Feb 2005 at 19:28, Wes Johnston wrote:
> > >
> > > Your tale gets even better.... the TNC-x can be jumper selectable between
> > TTL
> > > and rs232... so you don't need to make the rs232 daughter board for the
> > wrt54.
> > >
> > > Quoting "J. Beadles" <jbeadles@...>:
> > > >
> > > > Looking at attaching a TNC-X to the WRT. A TNC-X is a kiss-only TNC
> > > > that runs about $45 in kit form.
> > > >
> > > > http://www.coastalchipworks.com/PICTNC.htm
> > > >
> > > > One of the things I've been worried about is, does the TNC require
> > > > any serial port handshaking. Survey says, "no!" In fact, it
> > > > requires no handshaking at all. So this should be ideal for hooking
> > > > to a WRT serial port. I put in my order for one.
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> > Yahoo! Groups Links
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509. Re: [ntms-hsmm] Something on the TNC-X front...

Yahoo group: DAWG-HSMM
Date: 2005-02-24 13:55:44 UTC
From: Bob and Debbie Kmak
Topic: 496 Message: 509

Pete,

Thanks for the info. That it could be compiled to native code is encouraging, although I still think the 1 meg file size would be a problem. What is the ax.25 support needed for, if we use an external TNC? To parse the text packets coming from the TNC?

73,

Bob K5WO

----- Original Message -----
From: "AE5PL Lists" <HamLists@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Wednesday, February 23, 2005 8:54 PM
Subject: RE: [ntms-hsmm] Something on the TNC-X front...

>
> gcj is a compiler which takes Java source or intermediate (class) code
> and converts it to machine code. It is based on, uses, and is included
> with gcc. Therefore, it should be able to cross-compile to the MIPS
> cpu. There is no JVM required. The 1 meg is based on compiling for the
> Pentium. I would guess a little variance for the MIPS, but not
> significant.
>
> Should only a digipeater be needed, we could create a server "stub"
> which would eliminate the server and IGate functionality. However, I
> believe it would be of best use to be able to provide all three services
> in an HSMM environment.
>
> 73,
>
> Pete Loveall AE5PL
> mailto:pete@...
>
> > -----Original Message-----
> > From: Bob and Debbie Kmak [mailto:bdkmak@...]
> > Posted At: Wednesday, February 23, 2005 7:59 PM
> > Subject: Re: [ntms-hsmm] Something on the TNC-X front...
> >
> > 1 meg? I don't think we have that kind of room on the WRT54G.
> > Does javAPRSSrvr also require the Java Virtual Machine? That
> > would be another problem. I'm not even sure there is a Java
> > cross-compiler for the Broadcom MIPS cpu.
> >
> > Am I missing something obvious?

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> Yahoo! Groups Links
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510. (Fwd) Re: [ARRL-80211B] Hinternet Expanded...Help with antenna

Yahoo group: DAWG-HSMM
Date: 2005-02-24 13:58:17 UTC
From: jbeadles@pobox.com
Topic: 510 Message: 510

This is a link to a web-based propagation tool.

------- Forwarded message follows -------
From: Kent <kentp@...>
Subject: Re: [ARRL-80211B] Hinternet Expanded...Help with antennas/systems

John,

For whatever reason, I subscribe to the listserv, but it won't allow me
to post to the group. Here is one URL of note. It is much easier to
use this Longley Rice engine than trying the various Linux programs out
there and this is easier to use than Radio Mobile albeit not as precise.

(Credit due to the Green Bay Packet group)

http://gbppr.dyndns.org:8080/longley.main.cgi

73

Kent
KC0DGY

---------- Enclosure number 1 ----------
* This message contains the file '-', which has been
* uuencoded. If you are using Pegasus Mail, then you can use
* the browser's eXtract function to lift the original contents
* out to a file, otherwise you will have to extract the message
* and uudecode it manually.

begin 660 WPM$087E.PM$
M2F]H;BP-"@T*1F]R('=H871E=F5R(')E87-O;BP@22!S=6)S8W)I8F4@=&\@
M=&AE(&QI<W1S97)V+"!B=70@:70@=V]N)W0@86QL;W<@;64@#0IT;R!P;W-T
M('1O('1H92!G<F]U<"X@($AE<F4@:7,@;VYE(%523"!O9B!N;W1E+B`@270@
M:7,@;75C:"!E87-I97(@=&\@#0IU<V4@=&AI<R!,;VYG;&5Y(%)I8V4@96YG
M:6YE('1H86X@=')Y:6YG('1H92!V87)I;W5S($QI;G5X('!R;V=R86US(&]U
M="`-"G1H97)E(&%N9"!T:&ES(&ES(&5A<VEE<B!T;R!U<V4@=&AA;B!2861I
M;R!-;V)I;&4@86QB96ET(&YO="!A<R!P<F5C:7-E+@T*#0HH0W)E9&ET(&1U
M92!T;R!T:&4@1W)E96X@0F%Y(%!A8VME="!G<F]U<"D-"@T*:'1T<#HO+V=B
M<'!R+F1Y;F1N<RYO<F<Z.#`X,"]L;VYG;&5Y+FUA:6XN8V=I#0H-"C<S#0H-
M"DME;G0-"DM#,$1'60T*#0I*;VAN($)E861L97,@=W)O=&4Z#0H^($%N9')E
M=RP-"CX@#0H^($%N;W1H97(@=&AI;F<@=&\@9&\@:7,@=&\@9V5T(&$@8V]P
M>2!O9B!T:&4@05)23"!52$8O36EC<F]W879E#0H^($5X<&5R:6UE;G1E<B=S
M(&UA;G5A;"X@(%)E860@=&AR;W5G:"!T:&4@<V5C=&EO;B!O;B!P<F]P86=A
M=&EO;B!A;F0-"CX@<WES=&5M('!L86YN:6YG+B`@66]U)VQL('=A;G0@=&\@
M8F4@86)L92!T;R!P;&%N(&$@<')O<&5R(&QI;FL-"CX@8G5D9V5T+"!A;F0@
M=VEL;"!N965D('1O(&)E(&%W87)E(&]F('1H92!I;7!A8W0@;V8@2RUF86-T
M;W(L('1E<G)A:6X-"CX@86YD(&9R97-N96P@>F]N97,@;VX@>6]U<B!S>7-T

```
M96TN#0H^(`T*/B!9;W4@;6EG:'0@86QS;R!W86YT('1O(&EN=F5S=&EG871E
M(&1O=VYL;V%D:6YG(")2861I;R!-;V)I;&4B(&9O<@T*/B!D;VEN9R!21B!P
M<F]P86=A=&EO;B!P;&%N;FEN9RX-"CX@#0H^(%=E)W9E(&1O;F4@82!S:&]R
M="!T97)M(#(P;6D@:&]P('5S:6YG(#(X;7<@;VX@96%C:"!E;F0@86YD(&]N
M;'D@-#!D8@T*/B!O9B!A;G1E;FYA(&=A:6XL('-O('=E(&MN;W<@:70@:7,@
M<&]S<VEB;&4N("!,;VYG97(@:&]P<R!O9B!L;VYG97(-"CX@9'5R871I;VX@
M=VEL;"!S=69F97(@9G)O;2!D86EL>2!C:&%N9VEN9R!R969R86-T:79I='DL
M('=H:6-H(&UA>0T*/B!C875S92!Y;W5R('!A=&@@=&\@9F%I;"!P97)I;V1I
M8V%L;'DN("!3;R!B92!S=7)E('1O(')E860@=7`@;VX@=&AA="X-"CX@#0H^
M(`T*/CX^+2TM+2U/<FEG:6YA;"!-97-S86=E+2TM+2T-"CX^/D9R;VTZ($%M
M871E=7(@4F%D:6\@57-I;F<@.#`R+C$Q*'@I#0H^/CY;;6%I;'1O.D%24DPM
M.#`R,3%"0&QI<W1S97)V+G1A;74N961U72!/;B!"96AA;&8@3V8@2V,R3%1/
M("T@06YD<F5W#0H^/CY286=O;F4-"CX^/E-E;G0Z(%1H=7)S9&%Y+"!*=6YE
M(#$P+"`R,#`T(#,Z,38@4$T-"CX^/E1O.B!!4E),+3@P,C$Q0D!L:7-T<V5R
M=BYT86UU+F5D=0T*/CX^4W5B:F5C=#H@6T%24DPM.#`R,3%"72!(:6YT97)N
M970@17AP86YD960N+BY(96QP('=I=&@@86YT96YN87,O<WES=&5M<PT*/CX^
M#0H^/CY(96QL;RP-"CX^/@T*/CX^22!A;2!A($A!32!A;F0@:&%V92!B965N
M(&9O<B!T:&4@<&%S="!Y96%R+B!)="!H87,@8F5E;B!I;G1R:6=U:6YG(&UE
M('1O#0H^/CYE>'!E<FEM96YT('=I=&@@96QE8W1R;VYI8W,@86YD('1H92!W
M:61E+6%R96$@8V]M;75N:6-A=&EO;G,@=&AA="!)(&-A;@T*/CX^9V5T(&9R
M;VT@.#`R+C$Q(&1E=FEC97,N($D@:&%V92!B965N('1R>6EN9R!T;R!S96%R
M8V@@9F]R(&%M<&QI9FEE<G,@86YD#0H^/CYG;V]D(&%N=&5N;F$@<&QA;G,@
M8G5T($D@8V%N;F]T(&9I;F0@86YY(&=O;V0@9W5I9&%N8V4O:61E87,@;W(@
M<VET97,@;VX-"CX^/G1H92!A<G)L+F]R9R]H<VUM('-I=&5S(&]N(&AO=R!T
M;R!G;R!A8F]U="!A('!R;VIE8W0@=&AA="!)(&AA=F4@:6X-"CX^/FUI;F0N
M#0H^/CX-"CX^/D)!<VEC86QL>2!)('=O=6QD(&QI:V4@=&\@8W)E871E(&$@
M;F5T=V]R:R!T;R!C;VYN96-T(&UE(&%N9"!A;F]T:&5R(&AA;0T*/CX^;W9E
M<B!A(&1I<W1A;F-E(&]F(&%B;W5T(#(P+3,P(&UI;&5S("AM87D@;F]T(&)E
M(&-O;F-I=F%B;&4@8G5T(&EF(&YO=`T*/CX^;6%K92!A(&YE='=O<FL@=&AA
M="!W:6QL(&%T(&QE87-T(&5X=&5N9"!T:&4@<F%N9V4@8GD@82!L;W0@;6]R
M92!T:&5N#0H^/CYC=7)R96YT(&%N9"!J=7-T(&5X<&5R:65M;G0I#0H^/CX-
M"CX^/E=H870@22!H879E(&EN(&UI;F0@86YD(&YE960@:&5L<"!I;CH@6V%L
M;"!F;W(@.#`R+C$Q8B!705`O15A415).04P@3DE##0H^/CYD979I8V5S70T*
M/CX^+4%N=&5N;F$@1&5S:6=N('=I=&@@9W)E870@9V%I;@T*/CX^+BXN5&AR
M;W5G:"!A;F]T:&5R(&AA;2P@:2!A;2!A=V%R92!T:&%T($D@8V%N(&=E="`V
M,&1"*R!G86EN('=I=&@@80T*/CX^<V%T96QL:71E(&1I<V@@=&AA="!I<R!D
M<FEL;&5D(&-O<G)E8W1L>2!W:71H(&$@(G!A=&-H(&%N=&5N;F$B('!L86-E
M9`T*/CX^=VAE<F4@=&AE(&YO<FUA;"!R96-I979E<B!W;W5L9"!G;R!O;B!A
M(%16('-Y<W1E;2X-"CX^/BU!;7!L:69I960@;6EC<F]W879E('-Y<W1E;0T*
M/CX^+BXN;F]T(&UU8V@@;'5C:R!I;B!F:6YD:6YG(&-I<F-U:71R>2!A;F0@
M:2!K;F]W('1H:7,@:7,@82!H87)D('1H:6YK('1O#0H^/CYD979E;&]P(&)E
M='=E96X@<W=I=&-H:6YG('1I;64L(&5T8RXN+@T*/CX^+5-.35`@;6]D:69I
M8V%T:6]N('1O(&9I<FUW87)E#0H^/CXN+BYP;W-S:6)L>2!B;V]S="!T:&4@
M;W5T<'5T('!O=V5R(&]F('1H92!705!S('1O('1H92!M87@@,3`P;5<@;W(-
M"CX^/F%B;W9E+BXN#0H^/CX-"CX^/@T*/CX^5&AA;FL@66]U(&EN(&%D=F%N
M8V4L#0H^/CXM06YD<F5W#0H^/CYK8S)L=&\-"CX^/@T*/CX^#0H^(`T*/B`-
."CX@+@T*/B`-"@T*#0IW
`
end
```

511. Fwd: RE: [Fwd: [ntms-hsmm] Fw: LCARES in the Paris News]

Yahoo group: DAWG-HSMM
Date: 2005-02-24 14:22:16 UTC
From: dubose@texas.net
Topic: 511 Message: 511

Will the project leaders get in touch with Rick Lindquist, N1RL@...,
concerning this project.

I mentioned this to Rick and he thinks this would make a good news item.

Thanks,

Walt/K5YFW

----- Forwarded message from "Lindquist, Rick, N1RL" <n1rl@...> -----
Date: Wed, 23 Feb 2005 17:19:50 -0500
From: "Lindquist, Rick, N1RL" <n1rl@...>
Reply-To: "Lindquist, Rick, N1RL" <n1rl@...>
Subject: RE: [Fwd: [ntms-hsmm] Fw: LCARES in the Paris News]
To: Walt DuBose <dubose@...>

Can you give me a bit more context here, Walt? I assume this technology
is being used on amateur frequencies, yes? I've heard of wireless mesh
but that's about it.

73, Rick, N1RL

~~~~~~~~~~~~~~~~~~~~
Rick Lindquist, N1RL
Senior News Editor
ARRL--The National Association for Amateur Radio
860-594-0222
n1rl@...
See Late-Breaking Amateur Radio News at <http://www.arrl.org/>
Read Amateur Radio News in The ARRL Letter at
<http://www.arrl.org/arrlletter>
Hear Amateur Radio News on ARRL Audio News at
<http://www.arrl.org/arrlletter/audio/>
(or call 860-594-0384)
~~~~~~~~~~~~~~~~~~~~

-----Original Message-----
From: Walt DuBose [mailto:dubose@...]
Sent: Monday, February 21, 2005 10:41 PM
To: Lindquist, Rick, N1RL
Subject: [Fwd: [ntms-hsmm] Fw: LCARES in the Paris News]

Rick,

Thought you might be interrested.

Walt

-------- Original Message --------
Subject: [ntms-hsmm] Fw: LCARES in the Paris News
Date: Mon, 21 Feb 2005 19:35:32 -0600
From: N5TIM <n5tim@...>
Reply-To: ntms-hsmm@yahoogroups.com
To: ntms-hsmm@yahoogroups.com

Though all might be interested in this.

73, John - N5TIM

>X-Originating-IP: [66.163.170.7]
>From: "Tom@yahoo" <tomreese46@...>
>To: "Bill Cunningham -- N5VVS" <billdeb@...>,
> "Bill Kirk -- BASF" <kirkwj@...>
>Subject: Fw: LCARES in the Paris News
>Date: Mon, 21 Feb 2005 10:39:47 -0800
>X-Mailer: Microsoft Outlook Express 6.00.2800.1478
>
>
>----- Original Message -----
>From: <mailto:jkeisler@...>Jerry Keisler
>To: <mailto:jkeisler@...>RRVARC
>Sent: Sunday, February 20, 2005 3:47 PM
>Subject: LCARES in the Paris News
>
>Found this in Sunday's Paris News.
>4e96c83.jpg
>
><mailto:sam.craft@...>Photo by Sam Craft
>
>
>County's storm spotters go high-tech
>
><mailto:sara.stanglin@...>By Sara Stanglin
>The Paris News
>
>Published February 20, 2005
>
>Wireless technology now provides Lamar County with early storm
warning,
>and that could someday save lives.
>
>Lamar County Amateur Radio Emergency Service members have
successfully
>field-tested a new Internet access system. The system, which was
tested
>last weekend, advances response times for issuing weather warnings.
>
>The project is the first of its kind in the country, with the
National
>Weather Service using it in East Texas and Louisiana. The test

introduced
>new Spiderweb Meshbox technology, systems used by online
communication
>companies, to the tools spotters use.
>
>Currently, the weather service requires two spotters to see a tornado
>before a warning is issued. Precious seconds, sometimes minutes, can
be
>lost while waiting for confirmation.
>
>"It can often take several minutes before a storm is close enough to
a
>second spotter for a good sighting," said Leo Salas, National
Association
>for Amateur Radio emergency coordinator for Lamar County. "For anyone
in
>the path of the storm, a few extra minutes could be the difference
between
>life and death."
>
>With the Meshboxes, the first spotter is able to use a Webcam and the
>Internet to broadcast live video of the storm to the emergency
operations
>center and the weather service.
>
>The person at the second location becomes the second spotter.
Able to
>confirm the sighting, the warning goes out immediately.
>
>Salas, who works for Star-Net Online Systems, saw his employer using
the
>Meshboxes for other online purposes and realized the potential for
the
>creation of an advanced weather warning system. He shared his ideas
with
>the company's president, Larry Rhea, who agreed to donate a Meshbox
and
>help set up the system.
>
>The two decided to strategically place the new Meshbox on top of
Paris
>Regional Medical Center's south campus for the widest area of
coverage.
>This location provides access for spotters in downtown as well as
east and
>south of the loop. Rhea has also made company boxes in eastern and
>northern Lamar County accessible to spotters.
>
>Meshbox technology is designed so that it can expand into adjoining
>counties, creating an extensive network.

>
>"We are working with officials in Hunt County to set up a similar
system
>there," Rhea said. "Now that we've had a successful test, others are
>looking at Lamar County for this groundbreaking technology."
>
>In addition, spotters with the proper equipment can use the Internet
to
>access the the Weather Service's radar while performing
storm-spotting
>duties, allowing them to follow the progress of severe storms as they
approach
>
>Instant-messaging communication is also available. The new system
connects
>mobile spotters using laptops computers, personal digital assistants
with
>cameras, wireless Internet adapters and runs on available instant
>messaging software.
>
>In the past, the City of Paris and the Weather Service relied on
spotter
>reports via radio and telephone. The new technology is much faster.

John - N5TIM
www.qsl.net/n5tim for Public Service Info
http://garland-races.home.comcast.net
JUNK - Stuff we throw away. STUFF - junk we keep.

[Non-text portions of this message have been removed]

Yahoo! Groups Sponsor
<http://us.ard.yahoo.com/SIG=129el0acs/M=324658.6070095.7083352.3001176/
D=groups/S=1705644089:HM/EXP=1109122531/A=2343726/R=0/SIG=12i96gft2/*htt
p://clk.atdmt.com/VON/go/yhxxxvon01900091von/direct/01/&time=11090361317
43114>

Get unlimited calls to

U.S./Canada

<http://us.ard.yahoo.com/SIG=129el0acs/M=324658.6070095.7083352.3001176/
D=groups/S=1705644089:HM/EXP=1109122531/A=2343726/R=1/SIG=12i96gft2/*htt
p://clk.atdmt.com/VON/go/yhxxxvon01900091von/direct/01/&time=11090361317
43114>

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/

* To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com

<mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/>.

----- End forwarded message -----

512. RE: [ntms-hsmm] Something on the TNC-X front...

Yahoo group: DAWG-HSMM
Date: 2005-02-24 14:57:41 UTC
From: AE5PL Lists
Topic: 496 Message: 512

The ax.25 support provides the KISS to socket interface. Java has no direct serial port support so we use the ax.25 kernel support in Linux (we also support standard TCP/IP connections to AGWPE and KipSS TNC interfaces which run on Windows). The ax.25 kernel support doesn't do any parsing of the packets (for APRS packets). It just passes the KISS formatted packets to/from a simulated socket.

I did do a compress on the runtime file and it compresses to about 350k so it could be stored in firmware compressed and then expanded into RAM at startup.

73,

Pete Loveall AE5PL
mailto:pete@...t

> -----Original Message-----
> From: Bob and Debbie Kmak [mailto:bdkmak@...]
> Posted At: Thursday, February 24, 2005 7:52 AM
> Subject: Re: [ntms-hsmm] Something on the TNC-X front...
>
> Thanks for the info. That it could be compiled to native code
> is encouraging, although I still think the 1 meg file size
> would be a problem.
> What is the ax.25 support needed for, if we use an external
> TNC? To parse the text packets coming from the TNC?

513. Re: WRT54G Version 3 Hardware Pictures

Yahoo group: DAWG-HSMM
Date: 2005-02-24 17:50:05 UTC
From: J. Beadles
Topic: 496 Message: 513

Hey A.J.,

I have doubters on the other list, though I'd suspect that the statement that neither Satori or Alchemy will load should be persuasive.

1. What part of the country do you live in?
2. What store did you buy that from?
3. When you have a minute, can you possibly get a pic of the equipment plate on the bottom of the case? It should say v3 on it.

--- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)" <ajfarmer@s...> wrote:
> Sure, go right ahead.
>
> A.J.
>
> -----Original Message-----
> From: jbeadles@p... [mailto:jbeadles@p...]
>
> Yep, that's different. A.J., you mind if I throw that link out on
> the Sveasoft forum?
>
> On 23 Feb 2005 at 20:36, A.J. Farmer (AJ3U) wrote:
>
> >
> > As promised, here are pictures of the V.3 WRT54G hardware:
> >
> > http://www.aj3u.com/photos/thumbnails.php?album=34
> >
> > I'll let you hard core hardware guys interpret the changes. ;-)
> >
> > 73!
> >
> > A.J. Farmer, AJ3U
> > http://www.aj3u.com
> >
> >
> >
> >
> > Yahoo! Groups Links
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> Yahoo! Groups Links

514. RE: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures

Yahoo group: DAWG-HSMM
Date: 2005-02-24 20:58:42 UTC
From: A.J. Farmer (AJ3U)
Topic: 496 Message: 514

Well, now I fell awfully silly. Allow me to open mouth and insert foot. ;-)

Yes, these are v2.2 boxes, not v.3 as I had thought. I found the id on the equipment plate after taking a very close look. It's there, but it wasn't obvious.

What made me jump to the conclusion that these were version 3 boxes was the following:

1. On the status page, they have a Linksys firmware "out of the box" of v3.03.1
2. On the Linksys support page, they have choices of v1, v1.1, v2, v2.2, and v3 versions of the WRT54G which proves a v3 hardware box is out there.
3. The documentation on the Sveasoft and other forums only mention serial numbers up to CDF5x. The boxes I have begin with serial numbers of CDF7x which I have yet to find mentioned anywhere.
4. They reject both the Satori and Alchemy firmware which my v2 box accepts with no problems.

Oh well, live and learn. ;-) I still need to figure out why Satori or Alchemy won't load on these boxes. Back to the workbench...

A.J.

-----Original Message-----
From: J. Beadles [mailto:jbeadles@...]
Sent: Thursday, February 24, 2005 12:50 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures

Hey A.J.,

I have doubters on the other list, though I'd suspect that the statement that neither Satori or Alchemy will load should be persuasive.

1. What part of the country do you live in?
2. What store did you buy that from?
3. When you have a minute, can you possibly get a pic of the equipment plate on the bottom of the case? It should say v3 on it.

--- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)" <ajfarmer@s...> wrote:
> Sure, go right ahead.
>
> A.J.
>

> -----Original Message-----
> From: jbeadles@p... [mailto:jbeadles@p...]
>
> Yep, that's different. A.J., you mind if I throw that link out on
> the Sveasoft forum?
>
> On 23 Feb 2005 at 20:36, A.J. Farmer (AJ3U) wrote:
>
> >
> > As promised, here are pictures of the V.3 WRT54G hardware:
> >
> > http://www.aj3u.com/photos/thumbnails.php?album=34
> >
> > I'll let you hard core hardware guys interpret the changes. ;-)
> >
> > 73!
> >
> > A.J. Farmer, AJ3U
> > http://www.aj3u.com
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> > Yahoo! Groups Links
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> Yahoo! Groups Links

Yahoo! Groups Links

515. Re: WRT54G Version 3 Hardware Pictures

Yahoo group: DAWG-HSMM
Date: 2005-02-24 22:44:50 UTC
From: J. Beadles
Topic: 496 Message: 515

Yeah, I got taken by the Linksys page quoting v3 hardware also.

--- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)"
<ajfarmer@s...> wrote:
> Well, now I fell awfully silly. Allow me to open mouth and insert
foot. ;-)
>
> Yes, these are v2.2 boxes, not v.3 as I had thought. I found the
id on the
> equipment plate after taking a very close look. It's there, but it
wasn't
> obvious.
>
> What made me jump to the conclusion that these were version 3 boxes
was the
> following:
>
> 1. On the status page, they have a Linksys firmware "out of the
box" of
> v3.03.1
> 2. On the Linksys support page, they have choices of v1, v1.1, v2,
v2.2, and
> v3 versions of the WRT54G which proves a v3 hardware box is out
there.
> 3. The documentation on the Sveasoft and other forums only mention
serial
> numbers up to CDF5x. The boxes I have begin with serial numbers of
CDF7x
> which I have yet to find mentioned anywhere.
> 4. They reject both the Satori and Alchemy firmware which my v2 box
accepts
> with no problems.
>
> Oh well, live and learn. ;-) I still need to figure out why Satori
or
> Alchemy won't load on these boxes. Back to the workbench...
>
> A.J.
>
> -----Original Message-----
> From: J. Beadles [mailto:jbeadles@p...]
> Sent: Thursday, February 24, 2005 12:50 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures
>

>
>
> Hey A.J.,
>
> I have doubters on the other list, though I'd suspect that the
> statement that neither Satori or Alchemy will load should be
> persuasive.
>
> 1. What part of the country do you live in?
> 2. What store did you buy that from?
> 3. When you have a minute, can you possibly get a pic of the
> equipment plate on the bottom of the case? It should say v3 on
it.
>
>
> --- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)"
> <ajfarmer@s...> wrote:
> > Sure, go right ahead.
> >
> > A.J.
> >
> > -----Original Message-----
> > From: jbeadles@p... [mailto:jbeadles@p...]
> >
> > Yep, that's different. A.J., you mind if I throw that link out
on
> > the Sveasoft forum?
> >
> > On 23 Feb 2005 at 20:36, A.J. Farmer (AJ3U) wrote:
> >
> > >
> > > As promised, here are pictures of the V.3 WRT54G hardware:
> > >
> > > http://www.aj3u.com/photos/thumbnails.php?album=34
> > >
> > > I'll let you hard core hardware guys interpret the changes. ;-)
> > >
> > > 73!

516. Re: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures

Yahoo group: DAWG-HSMM
Date: 2005-02-25 00:10:12 UTC
From: Wes Johnston
Topic: 496 Message: 516

So, I'm confused... is there or isn't there a wrt that you can't load some incarnation of alchemy or other sveasoft firmware onto?

Wes
--

Quoting "J. Beadles" <jbeadles@...>:

>
>
> Yeah, I got taken by the Linksys page quoting v3 hardware also.
>
> --- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)"
> <ajfarmer@s...> wrote:
> > Well, now I fell awfully silly. Allow me to open mouth and insert
> foot. ;-)
> >
> > Yes, these are v2.2 boxes, not v.3 as I had thought. I found the
> id on the
> > equipment plate after taking a very close look. It's there, but it
> wasn't
> > obvious.
> >
> > What made me jump to the conclusion that these were version 3 boxes
> was the
> > following:
> >
> > 1. On the status page, they have a Linksys firmware "out of the
> box" of
> > v3.03.1
> > 2. On the Linksys support page, they have choices of v1, v1.1, v2,
> v2.2, and
> > v3 versions of the WRT54G which proves a v3 hardware box is out
> there.
> > 3. The documentation on the Sveasoft and other forums only mention
> serial
> > numbers up to CDF5x. The boxes I have begin with serial numbers of
> CDF7x
> > which I have yet to find mentioned anywhere.
> > 4. They reject both the Satori and Alchemy firmware which my v2 box
> accepts
> > with no problems.
> >
> > Oh well, live and learn. ;-) I still need to figure out why Satori
> or
> > Alchemy won't load on these boxes. Back to the workbench...

> >
> > A.J.
> >
> > -----Original Message-----
> > From: J. Beadles [mailto:jbeadles@p...]
> > Sent: Thursday, February 24, 2005 12:50 PM
> > To: ntms-hsmm@yahoogroups.com
> > Subject: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures
> >
> >
> >
> > Hey A.J.,
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> > I have doubters on the other list, though I'd suspect that the
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> > 1. What part of the country do you live in?
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> > --- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)"
> > <ajfarmer@s...> wrote:
> > > Sure, go right ahead.
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> > > A.J.
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> > > -----Original Message-----
> > > From: jbeadles@p... [mailto:jbeadles@p...]
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> > > the Sveasoft forum?
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> > > On 23 Feb 2005 at 20:36, A.J. Farmer (AJ3U) wrote:
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> > > > http://www.aj3u.com/photos/thumbnails.php?album=34
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> > > > I'll let you hard core hardware guys interpret the changes. ;-)
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> > > > 73!
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> Yahoo! Groups Links
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517. kd5zxg: GPS and other ramblings...

Yahoo group: DAWG-HSMM
Date: 2005-02-25 02:10:27 UTC
From: Ken Peter
Topic: 496 Message: 517

Nevermind my earlier stripped down GPS board question.
Power and antenna more trouble than its worth.

Just discovered NMEA on my company issued cell phone.
Only need to find a Nextel compatible serial data cable.
Much simpler, throw my phone on the dash anyway.

And by the way, I now work for MASTEC (Direct TV).
I may have opportunities to scavenge obsolete and/or
unwanted parabolic dishes... I am upgrading dishes on
about half my jobs. We are supposed to leave the old
dish if it an off-brand. But sometimes the client will ask
us to haul the old one away anyhow, especially if it was
for an older satellite service that no longer exists.

I was also issued a Acutrac22pro finder with 2 inputs.
Only rated for use to 2200mhz. But if I am lucky, it may
stretch far enough to read 2.4Ghz? I might be able to
simultaneously view fwd and reflected power (with help
of 2 matched directional couplers, and a +5V VCO that
that covers 2300-2450 range.)

If my couplers are down -20db, would it mess up the
measurement if my meter inputs mismatch to 75ohm?
Do I really need matching pads If the swr errors at the
meter inputs are the same for both sides? Would any
significant portion of those errors be reflected back
into the 50 ohm system I am trying to measure?

I will have to put DC blocks on my meter inputs.
They may otherwise attempt to power up an LNB.
I don't want to push +18VDC to the tiny 50 ohm
terminators on the isolated port of my couplers.

My new job isn't very technical, but it pays good.
Its mostly attic crawling and roof climbing... I have
learned a whole bunch about alternate ways to
install and ground the hardware in difficult situations.
That horrible bicycle rack contaption KD5OUG and
I abused at Mentorfest, should have been a non-
penetrating roof mount. A standard piece of kit I
didn't previously know existed. Training here has
revealed a goldmine of practical wisdom.

Ken
KD5ZXG

518. Re: WRT54G Version 3 Hardware Pictures

Yahoo group: DAWG-HSMM
Date: 2005-02-25 03:02:37 UTC
From: J. Beadles
Topic: 496 Message: 518

I know you can't load Satori on the v2.2, due to the different
ethernet controller chip (Alchemy fixes this). Can't remember the
others off the top of my head.

--- In ntms-hsmm@yahoogroups.com, Wes Johnston <yahoo@k...> wrote:
> So, I'm confused... is there or isn't there a wrt that you can't
load some
> incarnation of alchemy or other sveasoft firmware onto?
>
> Wes
> --
>
>
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> Quoting "J. Beadles" <jbeadles@p...>:
>
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> >
> > Yeah, I got taken by the Linksys page quoting v3 hardware also.
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> > > Well, now I fell awfully silly. Allow me to open mouth and
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> > > Yes, these are v2.2 boxes, not v.3 as I had thought. I found
the
> > id on the
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boxes
> > was the
> > > following:
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> > box" of
> > > v3.03.1
> > > 2. On the Linksys support page, they have choices of v1, v1.1,
v2,
> > v2.2, and

> > > v3 versions of the WRT54G which proves a v3 hardware box is out
> > there.
> > > 3. The documentation on the Sveasoft and other forums only
mention
> > serial
> > > numbers up to CDF5x. The boxes I have begin with serial
numbers of
> > CDF7x
> > > which I have yet to find mentioned anywhere.
> > > 4. They reject both the Satori and Alchemy firmware which my v2
box
> > accepts
> > > with no problems.
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> > > Oh well, live and learn. ;-) I still need to figure out why
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519. RE: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures

Yahoo group: DAWG-HSMM
Date: 2005-02-25 03:08:32 UTC
From: A.J. Farmer (AJ3U)
Topic: 496 Message: 519

Sorry for the confusion. Here is the latest:

I have a v2 unit which I can flash all day long - no problems. I have not been successful in flashing with Satori 4.0G or Alchemy 6.0rc5 on two v2.2 units that I have. Both units reject the upload. I successfully flashed one v2.2 unit with ewrt-03... However, I lost ethernet connectivity after flashing. I am still able to get to the box through the wireless connection.

While searching the forums tonight, I found this on Linksysinfo.org which clears this up, somewhat:
~~~
The latest HyperWRT firmware or the Latest official linksys firmwares are the only two firmwares that are compatable with YOUR WRT54G v2.2 and WRT54GS v1.1.

DO NOT FLASH WITH ANY OTHER FIRMWARE YOU HAVE BEEN WARNED.

The new v2.2 hardware has changed the ethernet chip. Now it's a real 100mbit switcher, older versions are 34mbit really.

So if you flash with an older firmware you'll get without WAN & LAN connection, only wireless access is possible.
So you must re-flash it again with original Linksys, HyperWRT 2.0b4 or Alchemy 6.0rcX via Wireless. This is a dangerous way to do it.

You have been warned.
~~~

The version of Alchemy I have been trying is 6.0rc5 which should be working so I'm still puzzled. There must be something I am missing here. I'll give it another try and report back.

Again, sorry for any confusion.

A.J.

-----Original Message-----
From: Wes Johnston [mailto:yahoo@...]
Sent: Thursday, February 24, 2005 7:10 PM
To: ntms-hsmm@yahoogroups.com; J. Beadles
Cc: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures

So, I'm confused... is there or isn't there a wrt that you can't load some incarnation of alchemy or other sveasoft firmware onto?

Wes
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Quoting "J. Beadles" <jbeadles@...>:

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Yahoo! Groups Links

520. RE: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures

Yahoo group: DAWG-HSMM
Date: 2005-02-25 03:13:28 UTC
From: Wes Johnston
Topic: 496 Message: 520

I have flashed a friend's v2.2 unit with alchemy, no problem. Works like a champ.

Wes
--

Quoting "A.J. Farmer (AJ3U)" <ajfarmer@...>:

>
> Sorry for the confusion. Here is the latest:
>
> I have a v2 unit which I can flash all day long - no problems. I have not
> been successful in flashing with Satori 4.0G or Alchemy 6.0rc5 on two v2.2
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> The new v2.2 hardware has changed the ethernet chip. Now it's a real 100mbit
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> So you must re-flash it again with original Linksys, HyperWRT 2.0b4 or
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> You have been warned.
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> To: ntms-hsmm@yahoogroups.com; J. Beadles
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521. Other useful WRT software mods

Yahoo group: DAWG-HSMM
Date: 2005-02-25 03:20:03 UTC
From: J. Beadles
Topic: 521 Message: 521

So, while youse guys are looking at WRT software mods for APRS and maybe Telpac, I think I'll bring up some other small mods that would be really handy to have for ham use.

1. Scanning Script - The WL commands in the telnet interface allow you to do a scan of other traffic near you. I've read that the WL scan function is different than what is displayed in the status/wireless page, in that it displays rssi and noise and also all the APs around you.

To do this scan, you have to put the unit into client mode, which breaks any current client connections to the box. Then you run the scan, dump the results of the scan, and put the output back into AP mode.

Imagine you have a WRT somewhere where it is inconvenient to use the lan ports, but you want to scan the environment to look for interference sources. You command the radio into client mode, which breaks your connection and the radio is now stuck in client mode.

It would be handy to have a script that would save the state of the current connections, run the scan, dump the results into a temp file and return the radio to its' original state.

2. Timed Powerdown - My local org in particular is looking to use these units for temporary field use, probably on battery power. One three day event we would like to be able to put the radios in place overnight on batteries, shut the radio down overnight and have it turn back on the next day. That'd save a hundred milliamps and extend the battery life.

3. I think somebody else mentioned it before, but it would be really nifty to have an NTP (network time) server on the WRT, with a GPS plugged into one of the serial ports.

4. And while I'm thinking of cheezy ideas, if you had a GPS hooked up to a digipeater, you could do a really low grade differential correction on any direct packets heard within a certain range. Nah, that's too cheezy.

522. RE: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures

Yahoo group: DAWG-HSMM
Date: 2005-02-25 03:23:38 UTC
From: jbeadles@pobox.com
Topic: 496 Message: 522

I have a v2.2 that I put Alchemy on, so I know it should work. Oh, how are you doing it, via the web interface or the tfpt method? I did it successfully with the web interface, and I was told earlier that Alchemy is too big for tftp.

On 24 Feb 2005 at 22:08, A.J. Farmer (AJ3U) wrote:

>
> Sorry for the confusion. Here is the latest:
>
> I have a v2 unit which I can flash all day long - no problems. I have not
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> > > I have doubters on the other list, though I'd suspect that the
> > > statement that neither Satori or Alchemy will load should be
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> > > <ajfarmer@s...> wrote:
> > > > Sure, go right ahead.
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> > > > A.J.
> > > >
> > > > -----Original Message-----
> > > > From: jbeadles@p... [mailto:jbeadles@p...]
> > > >
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> > > > the Sveasoft forum?
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523. RE: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures

Yahoo group: DAWG-HSMM
Date: 2005-02-25 04:05:32 UTC
From: A.J. Farmer (AJ3U)
Topic: 496 Message: 523

I have only tried the web interface.

-----Original Message-----
From: jbeadles@... [mailto:jbeadles@...]
Sent: Thursday, February 24, 2005 10:24 PM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures

I have a v2.2 that I put Alchemy on, so I know it should work. Oh, how are you doing it, via the web interface or the tfpt method? I did it successfully with the web interface, and I was told earlier that Alchemy is too big for tftp.

On 24 Feb 2005 at 22:08, A.J. Farmer (AJ3U) wrote:

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> Sorry for the confusion. Here is the latest:
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> I have a v2 unit which I can flash all day long - no problems. I have not
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> units that I have. Both units reject the upload. I successfully flashed
> one v2.2 unit with ewrt-03... However, I lost ethernet connectivity after
> flashing. I am still able to get to the box through the wireless
> connection.
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> While searching the forums tonight, I found this on Linksysinfo.org which
> clears this up, somewhat:
> ~~~
> The latest HyperWRT firmware or the Latest official linksys firmwares are
> the only two firmwares that are compatable with YOUR WRT54G v2.2 and
WRT54GS
> v1.1.
>
> DO NOT FLASH WITH ANY OTHER FIRMWARE YOU HAVE BEEN WARNED.
>
> The new v2.2 hardware has changed the ethernet chip. Now it's a real
100mbit
> switcher, older versions are 34mbit really.
>
> So if you flash with an older firmware you'll get without WAN & LAN
> connection, only wireless access is possible.
> So you must re-flash it again with original Linksys, HyperWRT 2.0b4 or
> Alchemy 6.0rcX via Wireless. This is a dangerous way to do it.
>
> You have been warned.
> ~~~

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> The version of Alchemy I have been trying is 6.0rc5 which should be
working
> so I'm still puzzled. There must be something I am missing here. I'll
give
> it another try and report back.
>
> Again, sorry for any confusion.
>
> A.J.
>
> -----Original Message-----
> From: Wes Johnston [mailto:yahoo@...]
> Sent: Thursday, February 24, 2005 7:10 PM
> To: ntms-hsmm@yahoogroups.com; J. Beadles
> Cc: ntms-hsmm@yahoogroups.com
> Subject: Re: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures
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> So, I'm confused... is there or isn't there a wrt that you can't load some
> incarnation of alchemy or other sveasoft firmware onto?
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> Quoting "J. Beadles" <jbeadles@...>:
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> > Yeah, I got taken by the Linksys page quoting v3 hardware also.
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> > --- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)"
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> > > Yes, these are v2.2 boxes, not v.3 as I had thought. I found the
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> > > 3. The documentation on the Sveasoft and other forums only mention
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> > > numbers up to CDF5x. The boxes I have begin with serial numbers of
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> > > Oh well, live and learn. ;-) I still need to figure out why Satori
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> > > Alchemy won't load on these boxes. Back to the workbench...
> > >
> > > A.J.
> > >
> > > -----Original Message-----
> > > From: J. Beadles [mailto:jbeadles@p...]
> > > Sent: Thursday, February 24, 2005 12:50 PM
> > > To: ntms-hsmm@yahoogroups.com
> > > Subject: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures
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> > >
> > > Hey A.J.,
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> > > > From: jbeadles@p... [mailto:jbeadles@p...]
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Yahoo! Groups Links

524. Re: [ntms-hsmm] kd5zxg: GPS and other ramblings...

Yahoo group: DAWG-HSMM
Date: 2005-02-25 03:04:24 UTC
From: jbeadles@pobox.com
Topic: 496 Message: 524

Congratulations on the job! Look on ebay for the nextel phone cable, I've seen their 3rd party phone stuff be really cheap. I've seen the non-penetrating roof mounts you are talking about. They look pretty useful.

On 24 Feb 2005 at 20:10, Ken Peter wrote:

>
> Nevermind my earlier stripped down GPS board question.
> Power and antenna more trouble than its worth.
>
> Just discovered NMEA on my company issued cell phone.
> Only need to find a Nextel compatible serial data cable.
> Much simpler, throw my phone on the dash anyway.
>
> And by the way, I now work for MASTEC (Direct TV).
> I may have opportunities to scavenge obsolete and/or
> unwanted parabolic dishes... I am upgrading dishes on
> about half my jobs. We are supposed to leave the old
> dish if it an off-brand. But sometimes the client will ask
> us to haul the old one away anyhow, especially if it was
> for an older satellite service that no longer exists.
> KD5ZXG

525. Re: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures

Yahoo group: DAWG-HSMM
Date: 2005-02-25 10:41:43 UTC
From: Bob and Debbie Kmak
Topic: 496 Message: 525

A.J.

A number of people have posted to the Sveasoft forums about problems flashing Alchemy. Some of their solutions sound like witchcraft to me, but in general they say to WAIT - up to 20 minutes - after flashing to see if it works. Some have posted that if you just let the box sit there after a while the light stops flashing and it's ready to go. I haven't tried flashing Alchemy yet so I can't speak of any personal experience, but probably its worth playing the waiting game just to see if it works.

73,

Bob K5WO

----- Original Message -----
From: "A.J. Farmer (AJ3U)" <ajfarmer@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Thursday, February 24, 2005 9:08 PM
Subject: RE: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures

>
> Sorry for the confusion. Here is the latest:
>
> I have a v2 unit which I can flash all day long - no problems. I have not
> been successful in flashing with Satori 4.0G or Alchemy 6.0rc5 on two v2.2
> units that I have. Both units reject the upload. I successfully flashed
> one v2.2 unit with ewrt-03... However, I lost ethernet connectivity after
> flashing. I am still able to get to the box through the wireless
> connection.
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> While searching the forums tonight, I found this on Linksysinfo.org which
> clears this up, somewhat:
> ~~~
> The latest HyperWRT firmware or the Latest official linksys firmwares are
> the only two firmwares that are compatable with YOUR WRT54G v2.2 and
WRT54GS
> v1.1.
>
> DO NOT FLASH WITH ANY OTHER FIRMWARE YOU HAVE BEEN WARNED.
>
> The new v2.2 hardware has changed the ethernet chip. Now it's a real
100mbit
> switcher, older versions are 34mbit really.
>
> So if you flash with an older firmware you'll get without WAN & LAN
> connection, only wireless access is possible.

> So you must re-flash it again with original Linksys, HyperWRT 2.0b4 or
> Alchemy 6.0rcX via Wireless. This is a dangerous way to do it.
>
> You have been warned.
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>
> The version of Alchemy I have been trying is 6.0rc5 which should be
working
> so I'm still puzzled. There must be something I am missing here. I'll
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> it another try and report back.
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> Again, sorry for any confusion.
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> A.J.
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> From: Wes Johnston [mailto:yahoo@...]
> Sent: Thursday, February 24, 2005 7:10 PM
> To: ntms-hsmm@yahoogroups.com; J. Beadles
> Cc: ntms-hsmm@yahoogroups.com
> Subject: Re: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures
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> So, I'm confused... is there or isn't there a wrt that you can't load some
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526. RE: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures

Yahoo group: DAWG-HSMM
Date: 2005-02-25 20:26:07 UTC
From: A.J. Farmer (AJ3U)
Topic: 496 Message: 526

I got it working. I have removed the pictures from my website. They were getting a lot of hits from the Sveasoft forum and I figured I would get rid of them since they are not v.3 boxes after all.

-----Original Message-----
From: A.J. Farmer (AJ3U) [mailto:ajfarmer@...]
Sent: Thursday, February 24, 2005 11:06 PM
To: 'ntms-hsmm@yahoogroups.com'
Subject: RE: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures

I have only tried the web interface.

-----Original Message-----
From: jbeadles@... [mailto:jbeadles@...]
Sent: Thursday, February 24, 2005 10:24 PM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Re: WRT54G Version 3 Hardware Pictures

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> > > > From: jbeadles@p... [mailto:jbeadles@p...]
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Yahoo! Groups Links

527. RE: RE: [Fwd: [ntms-hsmm] Fw: LCARES in the Paris News]

Yahoo group: DAWG-HSMM
Date: 2005-02-26 01:50:36 UTC
From: Leo Salas
Topic: 511 Message: 527

Ok.

Leo

From: dubose@... [mailto:dubose@...]
Sent: Thursday, February 24, 2005 8:22 AM
To: ntms-hsmm@yahoogroups.com
Cc: k8ocl@...
Subject: Fwd: RE: [Fwd: [ntms-hsmm] Fw: LCARES in the Paris News]

Will the project leaders get in touch with Rick Lindquist, N1RL@...,
concerning this project.

I mentioned this to Rick and he thinks this would make a good news item.

Thanks,

Walt/K5YFW

----- Forwarded message from "Lindquist, Rick, N1RL" <n1rl@...> -----
Date: Wed, 23 Feb 2005 17:19:50 -0500
From: "Lindquist, Rick, N1RL" <n1rl@...>
Reply-To: "Lindquist, Rick, N1RL" <n1rl@...>
Subject: RE: [Fwd: [ntms-hsmm] Fw: LCARES in the Paris News]
To: Walt DuBose <dubose@...>

Can you give me a bit more context here, Walt? I assume this technology
is being used on amateur frequencies, yes? I've heard of wireless mesh
but that's about it.

73, Rick, N1RL

~~~~~~~~~~~~~~~~~~~~
Rick Lindquist, N1RL
Senior News Editor
ARRL--The National Association for Amateur Radio
860-594-0222
n1rl@...
See Late-Breaking Amateur Radio News at <http://www.arrl.org/>
Read Amateur Radio News in The ARRL Letter at
<http://www.arrl.org/arrlletter>
Hear Amateur Radio News on ARRL Audio News at
<http://www.arrl.org/arrlletter/audio/>
(or call 860-594-0384)
~~~~~~~~~~~~~~~~~~~~

-----Original Message-----
From: Walt DuBose [mailto:dubose@...]
Sent: Monday, February 21, 2005 10:41 PM
To: Lindquist, Rick, N1RL
Subject: [Fwd: [ntms-hsmm] Fw: LCARES in the Paris News]

Rick,

Thought you might be interrested.

Walt

-------- Original Message --------
Subject: [ntms-hsmm] Fw: LCARES in the Paris News
Date: Mon, 21 Feb 2005 19:35:32 -0600
From: N5TIM <n5tim@...>
Reply-To: ntms-hsmm@yahoogroups.com
To: ntms-hsmm@yahoogroups.com

Though all might be interested in this.

73, John - N5TIM

>X-Originating-IP: [66.163.170.7]
>From: "Tom@yahoo" <tomreese46@...>
>To: "Bill Cunningham -- N5VVS" <billdeb@...>,
> "Bill Kirk -- BASF" <kirkwj@...>
>Subject: Fw: LCARES in the Paris News
>Date: Mon, 21 Feb 2005 10:39:47 -0800
>X-Mailer: Microsoft Outlook Express 6.00.2800.1478
>
>
>----- Original Message -----
>From: <mailto:jkeisler@...>Jerry Keisler
>To: <mailto:jkeisler@...>RRVARC
>Sent: Sunday, February 20, 2005 3:47 PM
>Subject: LCARES in the Paris News
>
>Found this in Sunday's Paris News.
>4e96c83.jpg
>
><mailto:sam.craft@...>Photo by Sam Craft
>
>
>County's storm spotters go high-tech
>
><mailto:sara.stanglin@...>By Sara Stanglin
>The Paris News
>
>Published February 20, 2005
>
>Wireless technology now provides Lamar County with early storm
warning,

>and that could someday save lives.
>
>Lamar County Amateur Radio Emergency Service members have
successfully
>field-tested a new Internet access system. The system, which was
tested
>last weekend, advances response times for issuing weather warnings.
>
>The project is the first of its kind in the country, with the
National
>Weather Service using it in East Texas and Louisiana. The test
introduced
>new Spiderweb Meshbox technology, systems used by online
communication
>companies, to the tools spotters use.
>
>Currently, the weather service requires two spotters to see a tornado
>before a warning is issued. Precious seconds, sometimes minutes, can
be
>lost while waiting for confirmation.
>
>"It can often take several minutes before a storm is close enough to
a
>second spotter for a good sighting," said Leo Salas, National
Association
>for Amateur Radio emergency coordinator for Lamar County. "For anyone
in
>the path of the storm, a few extra minutes could be the difference
between
>life and death."
>
>With the Meshboxes, the first spotter is able to use a Webcam and the
>Internet to broadcast live video of the storm to the emergency
operations
>center and the weather service.
>
>The person at the second location becomes the second spotter.
Able to
>confirm the sighting, the warning goes out immediately.
>
>Salas, who works for Star-Net Online Systems, saw his employer using
the
>Meshboxes for other online purposes and realized the potential for
the
>creation of an advanced weather warning system. He shared his ideas
with
>the company's president, Larry Rhea, who agreed to donate a Meshbox
and
>help set up the system.
>

>The two decided to strategically place the new Meshbox on top of
Paris
>Regional Medical Center's south campus for the widest area of
coverage.
>This location provides access for spotters in downtown as well as
east and
>south of the loop. Rhea has also made company boxes in eastern and
>northern Lamar County accessible to spotters.
>
>Meshbox technology is designed so that it can expand into adjoining
>counties, creating an extensive network.
>
>"We are working with officials in Hunt County to set up a similar
system
>there," Rhea said. "Now that we've had a successful test, others are
>looking at Lamar County for this groundbreaking technology."
>
>In addition, spotters with the proper equipment can use the Internet
to
>access the the Weather Service's radar while performing
storm-spotting
>duties, allowing them to follow the progress of severe storms as they
approach
>
>Instant-messaging communication is also available. The new system
connects
>mobile spotters using laptops computers, personal digital assistants
with
>cameras, wireless Internet adapters and runs on available instant
>messaging software.
>
>In the past, the City of Paris and the Weather Service relied on
spotter
>reports via radio and telephone. The new technology is much faster.

John - N5TIM
www.qsl.net/n5tim for Public Service Info
http://garland-races.home.comcast.net
JUNK - Stuff we throw away. STUFF - junk we keep.

[Non-text portions of this message have been removed]

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<http://us.ard.yahoo.com/SIG=129el0acs/M=324658.6070095.7083352.3001176/
D=groups/S=1705644089:HM/EXP=1109122531/A=2343726/R=0/SIG=12i96gft2/*htt
p://clk.atdmt.com/VON/go/yhxxxvon01900091von/direct/01/&time=11090361317
43114>

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D=groups/S=1705644089:HM/EXP=1109122531/A=2343726/R=1/SIG=12i96gft2/*htt
p://clk.atdmt.com/VON/go/yhxxxvon01900091von/direct/01/&time=11090361317
43114>

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* To visit your group on the web, go to:
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----- End forwarded message -----

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oups/S=1705644089:HM/EXP=1109341369/A=2593423/R=0/SIG=11el9gslf/*http:/www.n
etflix.com/Default?mqso=60190075> click here

<http://us.adserver.yahoo.com/l?M=298184.6018725.7038619.3001176/D=groups/S=
:HM/A=2593423/rand=878514513>

_____

Yahoo! Groups Links

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http://groups.yahoo.com/group/ntms-hsmm/

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[Non-text portions of this message have been removed]

528. Re: [ntms-hsmm] Something on the TNC-X front...

Yahoo group: DAWG-HSMM
Date: 2005-02-26 01:52:08 UTC
From: Jeff King
Topic: 496 Message: 528

Resistor divider and pullup should do it, in particular if you don't run high baud rates.

jbeadles@... wrote:Ahhhh, yeah, valid point. Hm.

On 24 Feb 2005 at 6:56, Wes Johnston wrote:

> I wonder if the TTL levels are 5v tolerant? You know, since the WRT runs on 3.3
> v internally.
>
> Wes
> --
>
>
>
> Quoting jbeadles@...:
>
> >
> > Gotta love it when a plan comes together!
> >
> > On 23 Feb 2005 at 19:28, Wes Johnston wrote:
> > >
> > > Your tale gets even better.... the TNC-x can be jumper selectable between
> > TTL
> > > and rs232... so you don't need to make the rs232 daughter board for the
> > wrt54.
> > >
> > > Quoting "J. Beadles" <jbeadles@...>:
> > > >
> > > > Looking at attaching a TNC-X to the WRT. A TNC-X is a kiss-only TNC
> > > > that runs about $45 in kit form.
> > > >
> > > > http://www.coastalchipworks.com/PICTNC.htm
> > > >
> > > > One of the things I've been worried about is, does the TNC require
> > > > any serial port handshaking. Survey says, "no!" In fact, it
> > > > requires no handshaking at all. So this should be ideal for hooking
> > > > to a WRT serial port. I put in my order for one.
> >
> >
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> >
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[Non-text portions of this message have been removed]

529. FW: [aprssig] DIGI_NED 0.3.5 for embedded systems

Yahoo group: DAWG-HSMM
Date: 2005-02-27 00:27:20 UTC
From: A.J. Farmer (AJ3U)
Topic: 529 Message: 529

Sorry for the cross post, but I just wanted to make sure everyone sees this
re: the WRT54G experimenting...

73!

A.J. Farmer, AJ3U
http://www.aj3u.com

-----Original Message-----
From: aprssig-bounces@... [mailto:aprssig-bounces@...]
On Behalf Of Henk de Groot
Sent: Saturday, February 26, 2005 4:47 PM
To: aprssig@...; aprsnews@...; Remko Welling
Subject: [aprssig] DIGI_NED 0.3.5 for embedded systems

Annoucement

Available now: DIGI_NED 0.3.5 sources for use in embedded systems.

This is a stripped down version of DIGI_NED to make it easier te reuse the
DIGI_NED digipeating core in an embedded device. It contains the complete
functionional rule-based digipeater core like the full DIGI_NED has. All
additional features, like messaging, sat-tracking, telemetry, wx, serial
in-out etc are gone to make the code footprint small and targeted at the
main task: rule-based digipeating.

The source also cleaned from platform dependent code, so it doesn't use
the Linux AX.25 kernel support but instead I added a simple multiport KISS
interface. It is fully functional under LINUX, but not anymore under DOS.
Because the AX.25 kernel support is not used in this code it cleanly
compiles and runs under Cygwin.

The core source code is only 68 kB. It was a bit of work to find all the
unused support functions after deleting the additions, but I think there
is not much redundant code left, if any.

The documentation with this version has been updated to reflect the
functionality of this version and is packaged with the source. The source
is of course covered by the GNU General Public License, like the full
DIGI_NED also is.

The source has been posted to:

http://www.homepages.hetnet.nl/~pe1dnn

To use it in your embedded TNC design you must:

1: find a way to load the rule-file (changes to read_ini.c)
2: change mac_if.c to communicate with your hardware instead of the KISS code (you can then drop kiss.c and kiss.h).
3: if you want verbose output then rewrite functions "say" and "vsay".

It is still some work to make this work on an embedded system, but I think it is a lot easier to reuse this code than to use the full DIGI_NED code with all the additional features.

I hope this contribution will stimulate the creation of more powerfull TNC-digipeaters, so the network can be realy fixed...

APRS[tm] is a Trademark of Bob Bruninga,
his home page is at "http://web.usna.navy.mil/~bruninga/aprs.html"

Kind regards,

Henk.

P.S. the digi_ned.ini file is a stripped down version of the file from the full version, it has not been adjusted to the "new paradigm" yet.

P.P.S. I coded multiport KISS from specification, I have no way to test it :-). My only KISS capable device is my TH-D7E (on which it runs by the way)...

_____
aprssig mailing list
aprssig@...
https://lists.tapr.org/cgi-bin/mailman/listinfo/aprssig

530. Richardson WiFi

Yahoo group: DAWG-HSMM
Date: 2005-02-27 04:19:39 UTC
From: Ken Peter
Topic: 496 Message: 530

Seen today's issue of "Richardson Today" paper?

City to offer free WiFi access from the Library,
City hall, Senior center, Heights and Huffines rec.
Including the parking lots and public areas outside.

Also mentions wi-fi at police and fire stations,
but wasn't clear if those will be public accessible.

First access to prompt for an email address to
send you a password. The password gets you
2hrs access (per day?)

http://www.cor.net/RichardsonToday/CurrentRToday.html

531. Richardson WiFi

Yahoo group: DAWG-HSMM
Date: 2005-02-27 04:23:20 UTC
From: Ken Peter
Topic: 496 Message: 531

Ratz... Online still showing last month's (Febuary) issue.
Eventually I suppose the linked document will catch up.
The current issue of interest is March 2005.

http://www.cor.net/RichardsonToday/CurrentRToday.html

532. RE: Richardson WiFi

Yahoo group: DAWG-HSMM
Date: 2005-02-27 04:58:23 UTC
From: Ken Peter
Topic: 496 Message: 532

Richardson CIO interviewed for the article was Steve Graves.
Does anyone here know him? Would he speak about his WiFi
implementaion plans for Richardson at an RWK or NTMS meeting?

I find no email address for Steve, but dug up his nextel pager link.
I don't know if this link is an appropriate way to contact him or not:
http://www.cor.net/Paging/NextelComposeMessageSteveGraves.htm

I have not yet made any unilateral attempt to initiate contact.

Ken
KD5ZXG

533. Re: [ntms-hsmm] RE: Richardson WiFi

Yahoo group: DAWG-HSMM
Date: 2005-02-27 05:35:25 UTC
From: jbeadles@pobox.com
Topic: 496 Message: 533

Ken,
Kevin Simms KD5YVL works for him, is helping with this
implementation. We can talk to him about this.

On 26 Feb 2005 at 22:58, Ken Peter wrote:

>
> Richardson CIO interviewed for the article was Steve Graves.
> Does anyone here know him? Would he speak about his WiFi
> implementaion plans for Richardson at an RWK or NTMS meeting?
>
> I find no email address for Steve, but dug up his nextel pager link.
> I don't know if this link is an appropriate way to contact him or not:
> http://www.cor.net/Paging/NextelComposeMessageSteveGraves.htm
>
> I have not yet made any unilateral attempt to initiate contact.
>
> Ken
> KD5ZXG
>
>
>
>
>
> Yahoo! Groups Links
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>

534. NTMS-HSMM Yahoo Group Hits 100 Members

Yahoo group: DAWG-HSMM
Date: 2005-03-01 20:45:53 UTC
From: Douglas Kilgore
Topic: 534 Message: 534

The 100th member joined the NTMS-HSMM Yahoo Group. W6QWH Charles Seevers has the honor of being #100 Sorry, Charles. We don't have any free groceries or key to a new car or anything like that. All we can offer is increased knowledge of high speed data used on the amateur microwave bands.
http://groups.yahoo.com/group/ntms-hsmm/

This group started up about 1 year ago just as a local group pursuing amateur use of 802.11b on 2.4 Ghz in the North Texas area around Dallas. Now we have subscribers from all over the United States.

Our emphasis was on adapting low cost commercial off-the-shelf equipment to amateur use. Mainly the work has been in packaging and higher gain antennas. Now a few brave souls are attempting to change hardware and the Linux firmware of the Linksys WRT54G access point to include some amateur functions.

Our first attempt to implement extended range high speed data at a public service event was the Wild Ride bike rally on May 8, 2004 The rest stops on the 62 mile route lined up in almost a straight line from the 16 story Nortel building.in Richardson. The goal was to have all rest stops and the Start/Finsh line connected to the internet and be uploading webcam pictures to a web site on a realtime basis. We only partially succeeded. It was a definite learning experience.

Our second attempt was to bring webcam pictures of the Plano Balloon Fest on Sept 19 to the web and to allow flight directors on the field access to realtime weather pictures from the National Weather Service. The area covered was only about 1000 feet from the internet gateway. We did succeed with our mission. Four webcams were operational.

Our third event was to bring high speed wireless internet into the meeting hall where the ARRL North Texas Section was holding Mentorfest on Oct. 12 in Irving. A wireless internet link was made to a computer store about 900 feet away accross a busy highway. An access point was set up inside the meeting hall. Hams were seen using their wireless PDAs to view the pictures being sent from a single webcam to a web site.

We are now planning for the 2005 Wiild Ride on May 21. We've learned a lot in the past year and hope to accomplish all of our goals for internet access.

Welcome to all of the remote Group members. Let's hear from you.

Doug Kilgore KD5OUG
List Owner
kd5oug@...

535. North Texas Microwave Society Meeting March 5th

Yahoo group: DAWG-HSMM
Date: 2005-03-02 01:54:32 UTC
From: Bob and Debbie Kmak
Topic: 535 Message: 535

This month's meeting will be at the Lockheed-Martin Recreation Center in Ft.Worth Texas.
We will be guests of the Lockheed-Martin Radio Association.

The meeting will be held in the clubhouse, Meeting Room 1 (Liberator).
As you drive up to the grounds, you will have to tell the guard that you are there for the radio club meeting.
For more info go to the NTMS web site at http://www.ntms.org/ .

The informal part of the meeting (flea market, chat) will start a 12 noon.

Then at 1 PM, the official festivities will begin:

1. "Surplus Solid State Amplifiers" by Dave Robinson, WW2R

2. Antenna Test Range, run by Kent Britain, WA5VJB.

Currently, Kent is bringing gear to test 902 MHz and 1296 MHz antennas.
If you plan to bring antennas for other bands contact Kent at WA5VJB@... and let him know.

See you Saturday!

Bob Kmak K5WO
NTMS VP

[Non-text portions of this message have been removed]

536. javAPRSSrvr Serial Port Support

Yahoo group: DAWG-HSMM
Date: 2005-03-02 15:51:16 UTC
From: AE5PL Lists
Topic: 536 Message: 536

I have added serial port support to javAPRSSrvr so the IGate and digipeater functions can communicate directly with a KISS mode TNC (no ax.25 kernel support required). It has been tested on a Linux box running the compiled form (gcj) without problem. While the size is still about 1 meg uncompressed and 350k compressed, it does provide a full APRS server, IGate, and digipeater for network appliances such as the WRT54G. I am hopeful someone will try to compile and load it on a WRT54G. If you are interested in obtaining the jar file to compile for this application, please contact me directly at pete@...

73,

Pete Loveall AE5PL
mailto:pete@...

537. NT5NT AP is off the air

Yahoo group: DAWG-HSMM
Date: 2005-03-03 19:59:42 UTC
From: J. Beadles
Topic: 537 Message: 537

The NT5NT access point is off the air for replacement. The old WAP11 based AP will be replaced with a WRT54G based AP and the DC power lines up to the roof are being revamped with a 48v to 12v system being put in place. This system is expected to run any AP/Bridges as well as the 10GHZ and 24GHz beacons.

538. Vendor: Flexible 48v POE adapters

Yahoo group: DAWG-HSMM
Date: 2005-03-04 14:07:59 UTC
From: J. Beadles
Topic: 538 Message: 538

http://www.radiolabs.com/products/wireless/networking/power-over-ethernet.php

539. Mar 17 Dinner Meeting for HSMM

Yahoo group: DAWG-HSMM
Date: 2005-03-07 03:33:48 UTC
From: Douglas Kilgore
Topic: 539 Message: 539

A dinner meeting for HSMM has been planned for Thursday, Mar 17 at Chuck's Hamburger, 502 Spanish Village Shopping Center, NW Corner Coit and Arapaho in North Dallas. Come at 6:30pm and buy dinner then we'll have the meeting at 7:00pm.

Agenda:
Individual Activity Updates
Progress of WRT54G Conversion
Planning for May 21 Wild Ride Bike Rally

Doug Kilgore KD5OUG

540. Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-07 22:21:43 UTC
From: J. Beadles
Topic: 540 Message: 540

A small and cheap 2m to 2.4GHz transverter. It occurs to me, now that the Wild Ride is coming up to us, that when you are hanging 100ft on a tower, that pointing these high gain 2.4GHz antennas is somewhat difficult. I'm still convinced (without proof) that our problem getting our 13 mi RS1 to ACoE path to work was an antenna pointing issue.

It was flat impossible to get any signal strength readings from the WAP11. All we had was a works - doesn't work from the wap. We spent 3 days (nights, actually) trying to get that path to work, and it still failed. It'll be better than that this year with the WRTs, which do give us signal strength readings, but it'll still be tricky in that the installer probably won't have a laptop up there on the tower.

I'm thinking that what we need is a 2m to 2.4GHz transverter that the installer can hook onto the antenna and use the HT signal strength reading to dial in the antenna.

Similar transverters for other freqs would probably be useful as well. Fortunately, we are a working group off the NTMS for a reason! Hey Joe, what do you think?

541. Re: [ntms-hsmm] Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-07 22:39:18 UTC
From: Douglas Kilgore
Topic: 540 Message: 541

Netstumbler has builtin signal strength indicator as well as a realtime graph. Just put a laptop at the base of the tower and use a HT to tell the guy on the tower to move the antenna up-down left-right.

Also if we use an amplifier on Nortel, we could use a panel antenna on the tower with less gain but larger beamwidth. The larger beamwidth would make aiming less tricky.

Doug Kd5OUG

J. Beadles wrote:

>A small and cheap 2m to 2.4GHz transverter. It occurs to me, now
>that the Wild Ride is coming up to us, that when you are hanging
>100ft on a tower, that pointing these high gain 2.4GHz antennas is
>somewhat difficult. I'm still convinced (without proof) that our
>problem getting our 13 mi RS1 to ACoE path to work was an antenna
>pointing issue.
>
>It was flat impossible to get any signal strength readings from the
>WAP11. All we had was a works - doesn't work from the wap. We spent
>3 days (nights, actually) trying to get that path to work, and it
>still failed. It'll be better than that this year with the WRTs,
>which do give us signal strength readings, but it'll still be tricky
>in that the installer probably won't have a laptop up there on the
>tower.
>
>I'm thinking that what we need is a 2m to 2.4GHz transverter that the
>installer can hook onto the antenna and use the HT signal strength
>reading to dial in the antenna.
>
>Similar transverters for other freqs would probably be useful as
>well. Fortunately, we are a working group off the NTMS for a
>reason! Hey Joe, what do you think?
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>Yahoo! Groups Links
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542. RE: [ntms-hsmm] Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-07 22:45:35 UTC
From: A.J. Farmer (AJ3U)
Topic: 540 Message: 542

I use a Pocket PC and Netstumbler to align antennas on long links. Hook it directly to the antenna with a pigtail. Works great.

73!

A.J. Farmer, AJ3U
http://www.aj3u.com

-----Original Message-----
From: J. Beadles [mailto:jbeadles@...]
Sent: Monday, March 07, 2005 5:22 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Y'know what this group needs?

A small and cheap 2m to 2.4GHz transverter. It occurs to me, now that the Wild Ride is coming up to us, that when you are hanging 100ft on a tower, that pointing these high gain 2.4GHz antennas is somewhat difficult. I'm still convinced (without proof) that our problem getting our 13 mi RS1 to ACoE path to work was an antenna pointing issue.

It was flat impossible to get any signal strength readings from the WAP11. All we had was a works - doesn't work from the wap. We spent 3 days (nights, actually) trying to get that path to work, and it still failed. It'll be better than that this year with the WRTs, which do give us signal strength readings, but it'll still be tricky in that the installer probably won't have a laptop up there on the tower.

I'm thinking that what we need is a 2m to 2.4GHz transverter that the installer can hook onto the antenna and use the HT signal strength reading to dial in the antenna.

Similar transverters for other freqs would probably be useful as well. Fortunately, we are a working group off the NTMS for a reason! Hey Joe, what do you think?

Yahoo! Groups Links

543. RE: [ntms-hsmm] Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-07 23:02:12 UTC
From: Ken Patterson
Topic: 540 Message: 543

Yeah, a simple (at least on paper) upconverter on one end & a downconverter on the other might be the trick. It "should" be very easy to get at least 200mW of 2.4GHz energy out of a 5W HT

On the other hand, if the antenna alignment will be at night again, how about using a couple of bright flashlights or similar beacons &/or strobes?

I also like AJ3U's idea of the Pocket PC & Netstumbler.

In addition, maybe the intended antennas & jumpers could be taken to the next NTMS antenna gain party, just to verify they work as advertised & intended.

de Ken,
N5EQT

544. Re: Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-08 00:35:56 UTC
From: J. Beadles
Topic: 540 Message: 544

I take it you were using a pccard sleeve? I haven't seen a compact
flash card with an external antenna port.

Hmmm, I wonder what those sleeves go for these days...

--- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)"
<ajfarmer@s...> wrote:
> I use a Pocket PC and Netstumbler to align antennas on long links.
Hook it
> directly to the antenna with a pigtail. Works great.
>
> 73!
>
> A.J. Farmer, AJ3U
> http://www.aj3u.com
>
>
> -----Original Message-----
> From: J. Beadles [mailto:jbeadles@p...]
> Sent: Monday, March 07, 2005 5:22 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Y'know what this group needs?
>
>
>
> A small and cheap 2m to 2.4GHz transverter. It occurs to me, now
> that the Wild Ride is coming up to us, that when you are hanging
> 100ft on a tower, that pointing these high gain 2.4GHz antennas is
> somewhat difficult. I'm still convinced (without proof) that our
> problem getting our 13 mi RS1 to ACoE path to work was an antenna
> pointing issue.
>
> It was flat impossible to get any signal strength readings from the
> WAP11. All we had was a works - doesn't work from the wap. We
spent
> 3 days (nights, actually) trying to get that path to work, and it
> still failed. It'll be better than that this year with the WRTs,
> which do give us signal strength readings, but it'll still be
tricky
> in that the installer probably won't have a laptop up there on the
> tower.
>
> I'm thinking that what we need is a 2m to 2.4GHz transverter that
the
> installer can hook onto the antenna and use the HT signal strength

> reading to dial in the antenna.
>
> Similar transverters for other freqs would probably be useful as
> well. Fortunately, we are a working group off the NTMS for a
> reason! Hey Joe, what do you think?
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> Yahoo! Groups Links

545. Re: Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-08 00:42:53 UTC
From: J. Beadles
Topic: 540 Message: 545

Yeah, but I was trying to avoid that. I was thinking in general terms, for all events where it may not be feasible to haul up a long, lossy tx cable. Complicates the setup, too.

1. You'd have to haul the antenna and AP up.
2. Haul up the long cable to the ground, hook it to the antenna
3. Do the pointing
4. Drop the long cable
5. Hook up the access point.

On some of these long hops without an amplifier that'd put you down below the threshold of the radio, so you wouldn't hear anything.

I still like the transverter idea anyway, since the 2.4 eqpt is available cheap these days. Could do double duty as repeater links.

Ah well, a guy can dream, can't he?

--- In ntms-hsmm@yahoogroups.com, Douglas Kilgore
<douglas.kilgore@c...> wrote:
> Netstumbler has builtin signal strength indicator as well as a
realtime
> graph. Just put a laptop at the base of the tower and use a HT to
tell
> the guy on the tower to move the antenna up-down left-right.
>
> Also if we use an amplifier on Nortel, we could use a panel antenna
on
> the tower with less gain but larger beamwidth. The larger beamwidth
> would make aiming less tricky.
>
> Doug Kd5OUG
>
> J. Beadles wrote:
>
> >A small and cheap 2m to 2.4GHz transverter. It occurs to me, now
> >that the Wild Ride is coming up to us, that when you are hanging
> >100ft on a tower, that pointing these high gain 2.4GHz antennas is
> >somewhat difficult. I'm still convinced (without proof) that our
> >problem getting our 13 mi RS1 to ACoE path to work was an antenna
> >pointing issue.
> >
> >It was flat impossible to get any signal strength readings from
the
> >WAP11. All we had was a works - doesn't work from the wap. We
spent

> >3 days (nights, actually) trying to get that path to work, and it
> >still failed. It'll be better than that this year with the WRTs,
> >which do give us signal strength readings, but it'll still be
tricky
> >in that the installer probably won't have a laptop up there on the
> >tower.
> >
> >I'm thinking that what we need is a 2m to 2.4GHz transverter that
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> >installer can hook onto the antenna and use the HT signal strength
> >reading to dial in the antenna.
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> >Similar transverters for other freqs would probably be useful as
> >well. Fortunately, we are a working group off the NTMS for a
> >reason! Hey Joe, what do you think?
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546. Re: Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-08 00:44:53 UTC
From: J. Beadles
Topic: 540 Message: 546

Y'know, strobes isn't that much of an issue. We had visual on the end point the last time, and it didn't help pointing one of the 24db grids. Greg couldn't get his eye directly behind the feedpoint to get it that accurate.

--- In ntms-hsmm@yahoogroups.com, "Ken Patterson" <kenp@e...> wrote:
> Yeah, a simple (at least on paper) upconverter on one end & a downconverter
> on the other might be the trick. It "should" be very easy to get at least
> 200mW of 2.4GHz energy out of a 5W HT
>
> On the other hand, if the antenna alignment will be at night again, how
> about using a couple of bright flashlights or similar beacons &/or strobes?
>
> I also like AJ3U's idea of the Pocket PC & Netstumbler.
>
> In addition, maybe the intended antennas & jumpers could be taken to the
> next NTMS antenna gain party, just to verify they work as advertised &
> intended.
>
> de Ken,
> N5EQT

547. Re: [ntms-hsmm] Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-08 05:08:34 UTC
From: R. B.
Topic: 540 Message: 547

Your right and it works very good for this purpose. I have 9 mile point to point internet connection in Kansas that I tuned using this method on my tower there for my parents to use.

Linksys WET-11 at the dish with ethernet cable to ground to Linksys AP to spray the local area at my parent home. Its been working for almost two years now.

It wasnt no fun at first carrying the notebook up the tower though. Later versions of WET-11 firmware have signal strenght indicator built into them now which now anyone on ground can help with fine tuning of the dish with out carrying notebook up the tower.

Probably be easier to use this method.....

73's

Randy, WA0D

Douglas Kilgore <douglas.kilgore@...> wrote:
Netstumbler has builtin signal strength indicator as well as a realtime graph. Just put a laptop at the base of the tower and use a HT to tell the guy on the tower to move the antenna up-down left-right.

Also if we use an amplifier on Nortel, we could use a panel antenna on the tower with less gain but larger beamwidth. The larger beamwidth would make aiming less tricky.

Doug Kd5OUG

J. Beadles wrote:

>A small and cheap 2m to 2.4GHz transverter. It occurs to me, now
>that the Wild Ride is coming up to us, that when you are hanging
>100ft on a tower, that pointing these high gain 2.4GHz antennas is
>somewhat difficult. I'm still convinced (without proof) that our
>problem getting our 13 mi RS1 to ACoE path to work was an antenna
>pointing issue.
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>WAP11. All we had was a works - doesn't work from the wap. We spent
>3 days (nights, actually) trying to get that path to work, and it
>still failed. It'll be better than that this year with the WRTs,
>which do give us signal strength readings, but it'll still be tricky
>in that the installer probably won't have a laptop up there on the
>tower.
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>I'm thinking that what we need is a 2m to 2.4GHz transverter that the
>installer can hook onto the antenna and use the HT signal strength

>reading to dial in the antenna.
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[Non-text portions of this message have been removed]

548. Re: [ntms-hsmm] Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-08 13:58:24 UTC
From: Bob and Debbie Kmak
Topic: 540 Message: 548

John,

I don't think a truly cheap 2m to 2.4GHz transverter is possible, unless you can find something on the surplus market that is easy to convert. However, a lot of hams, including myself, have 2.4GHz to 2m receive downconverters that are pretty useless now that AO-40 is kaput. These were mostly made from surplus pay TV downconverters, and were available for $50 or so when AO-40 was functional.

If you config the WAP11 to broadcast its SSID every second, there's your signal source, and with a 2m to 2.4GHz downconverter on the other end maybe that would work?

73,

Bob

----- Original Message -----
From: "J. Beadles" <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Monday, March 07, 2005 4:21 PM
Subject: [ntms-hsmm] Y'know what this group needs?

>
>
> A small and cheap 2m to 2.4GHz transverter. It occurs to me, now
> that the Wild Ride is coming up to us, that when you are hanging
> 100ft on a tower, that pointing these high gain 2.4GHz antennas is
> somewhat difficult. I'm still convinced (without proof) that our
> problem getting our 13 mi RS1 to ACoE path to work was an antenna
> pointing issue.
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> It was flat impossible to get any signal strength readings from the
> WAP11. All we had was a works - doesn't work from the wap. We spent
> 3 days (nights, actually) trying to get that path to work, and it
> still failed. It'll be better than that this year with the WRTs,
> which do give us signal strength readings, but it'll still be tricky
> in that the installer probably won't have a laptop up there on the
> tower.
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> I'm thinking that what we need is a 2m to 2.4GHz transverter that the
> installer can hook onto the antenna and use the HT signal strength
> reading to dial in the antenna.
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> Similar transverters for other freqs would probably be useful as
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> reason! Hey Joe, what do you think?
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549. Re: [ntms-hsmm] Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-08 14:20:53 UTC
From: jbeadles@pobox.com
Topic: 540 Message: 549

Bob,

Actually, I was hoping to drag Joe into this. He and I were talking about this some weeks ago, and he is thinking that it might be possible if a really cheap VFO could be made stable enough. I think his thinking is that the widespread availability of consumer grade hardware in this band, that there need to be cheapish sources stable enough. Don't ask me, Joe's going to be the authority here.

Interesting idea about simply trying to drop the SSID beacon down to audio. I know my house AP sure gets into my 2.4 video transmitter. Hey, there's a thought....

On 8 Mar 2005 at 7:58, Bob and Debbie Kmak wrote:

>
> John,
>
> I don't think a truly cheap 2m to 2.4GHz transverter is possible, unless you
> can find something on the surplus market that is easy to convert. However, a
> lot of hams, including myself, have 2.4GHz to 2m receive downconverters that
> are pretty useless now that AO-40 is kaput. These were mostly made from
> surplus pay TV downconverters, and were available for $50 or so when AO-40
> was functional.
>
> If you config the WAP11 to broadcast its SSID every second, there's your
> signal source, and with a 2m to 2.4GHz downconverter on the other end maybe
> that would work?
>
> 73,
>
> Bob
>
>
> ----- Original Message -----
> From: "J. Beadles" <jbeadles@...>
> To: <ntms-hsmm@yahoogroups.com>
> Sent: Monday, March 07, 2005 4:21 PM
> Subject: [ntms-hsmm] Y'know what this group needs?
>
>
> >
> >
> > A small and cheap 2m to 2.4GHz transverter. It occurs to me, now
> > that the Wild Ride is coming up to us, that when you are hanging
> > 100ft on a tower, that pointing these high gain 2.4GHz antennas is

> > somewhat difficult. I'm still convinced (without proof) that our
> > problem getting our 13 mi RS1 to ACoE path to work was an antenna
> > pointing issue.
> >
> > It was flat impossible to get any signal strength readings from the
> > WAP11. All we had was a works - doesn't work from the wap. We spent
> > 3 days (nights, actually) trying to get that path to work, and it
> > still failed. It'll be better than that this year with the WRTs,
> > which do give us signal strength readings, but it'll still be tricky
> > in that the installer probably won't have a laptop up there on the
> > tower.
> >
> > I'm thinking that what we need is a 2m to 2.4GHz transverter that the
> > installer can hook onto the antenna and use the HT signal strength
> > reading to dial in the antenna.
> >
> > Similar transverters for other freqs would probably be useful as
> > well. Fortunately, we are a working group off the NTMS for a
> > reason! Hey Joe, what do you think?
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550. Re: [ntms-hsmm] Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-08 14:14:56 UTC
From: dubose@texas.net
Topic: 540 Message: 550

Quoting "J. Beadles" <jbeadles@...>:
>
>
> A small and cheap 2m to 2.4GHz transverter. It occurs to me, now
> that the Wild Ride is coming up to us, that when you are hanging
> 100ft on a tower, that pointing these high gain 2.4GHz antennas is
> somewhat difficult. I'm still convinced (without proof) that our
> problem getting our 13 mi RS1 to ACoE path to work was an antenna
> pointing issue.
>

I've found the same problem and solved it by using at least a 45 deg panel
array and BDA rather then a higher gain and sharper lobe antenna.

>
> It was flat impossible to get any signal strength readings from the
> WAP11. All we had was a works - doesn't work from the wap. We spent
> 3 days (nights, actually) trying to get that path to work, and it
> still failed. It'll be better than that this year with the WRTs,
> which do give us signal strength readings, but it'll still be tricky
> in that the installer probably won't have a laptop up there on the
> tower.
>

There's nothing like a medium power laser blinking CQ and and pair of good
glasses for aiming.

>
> I'm thinking that what we need is a 2m to 2.4GHz transverter that the
> installer can hook onto the antenna and use the HT signal strength
> reading to dial in the antenna.
>

That would work.

Walt/K5YFW

>
> Similar transverters for other freqs would probably be useful as
> well. Fortunately, we are a working group off the NTMS for a
> reason! Hey Joe, what do you think?

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> To visit your group on the web, go to:
> http://groups.yahoo.com/group/ntms-hsmm/
>
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> ntms-hsmm-unsubscribe@yahoogroups.com
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551. Re: Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-08 14:56:39 UTC
From: J. Beadles
Topic: 540 Message: 551

--- In ntms-hsmm@yahoogroups.com, dubose@t... wrote:
> Quoting "J. Beadles" <jbeadles@p...>:
> >
> >
> > A small and cheap 2m to 2.4GHz transverter. It occurs to me, now
> > that the Wild Ride is coming up to us, that when you are hanging
> > 100ft on a tower, that pointing these high gain 2.4GHz antennas
is
> > somewhat difficult. I'm still convinced (without proof) that our
> > problem getting our 13 mi RS1 to ACoE path to work was an antenna
> > pointing issue.
> >
>
> I've found the same problem and solved it by using at least a 45
deg panel
> array and BDA rather then a higher gain and sharper lobe antenna.

Yeah. Boy, I just hate to do that here, though. The amount of
802.11n activity is quite impressive, and we're pointing out into an
area that is filling in with commercial wisps. Not to mention the
fact that we're on the roof of my employer's building, right on top
of the executive's floor. We have to be a tad careful about power.

> > It was flat impossible to get any signal strength readings from
the
> > WAP11. All we had was a works - doesn't work from the wap. We
spent
> > 3 days (nights, actually) trying to get that path to work, and it
> > still failed. It'll be better than that this year with the WRTs,
> > which do give us signal strength readings, but it'll still be
tricky
> > in that the installer probably won't have a laptop up there on
the
> > tower.
> >
>
> There's nothing like a medium power laser blinking CQ and and pair
of good
> glasses for aiming.

You know, I'm thinking one of the problems is just the cruddy mast
clamp on those grids. once you get the antenna clamped onto the
tower leg, it's very difficult to move it in elevation with any
precision. But we did have visual on the location. I know Greg had
it, he took a picture and showed us.

> >
> > I'm thinking that what we need is a 2m to 2.4GHz transverter that
the
> > installer can hook onto the antenna and use the HT signal
strength
> > reading to dial in the antenna.
> >
>
> That would work.
>
>
> Walt/K5YFW
>
> >
> > Similar transverters for other freqs would probably be useful as
> > well. Fortunately, we are a working group off the NTMS for a
> > reason! Hey Joe, what do you think?
>

552. TNC-X update

Yahoo group: DAWG-HSMM
Date: 2005-03-08 15:05:05 UTC
From: J. Beadles
Topic: 552 Message: 552

Got my $45 TNC-X kit from John Hansen, got it built up last night. It's a Terminator 3 duration kit - which means that I watched all of Terminator 3 while putting it together. :-) Got it hooked up, ran AGWPE and started receiving APRS packets, no problem. Tonight I'll play with beaconing.

The only issues I had were getting the cabling straight, which is, of course, my own fault. Unlike the KPC-3 or other TNCs, it does not require you to turn KISS on or off, it is KISS only from the time you power it on.

Now if any of you rugged individualists get a WRT54G firmware load set up with Pete's javAPRSsvr port, I'm ready to test...

553. RE: [ntms-hsmm] Re: Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-08 15:30:01 UTC
From: A.J. Farmer (AJ3U)
Topic: 540 Message: 553

I have an Amigo PD-600C which has a built in PC Card slot (no sleeve
needed). They don't make them any more though - the company went belly-up.
I have also used a Dell Axim with a Compact Flash to PC Card adapter.

73!

A.J. Farmer, AJ3U
http://www.aj3u.com

-----Original Message-----
From: J. Beadles [mailto:jbeadles@...]
Sent: Monday, March 07, 2005 7:36 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Y'know what this group needs?

I take it you were using a pccard sleeve? I haven't seen a compact
flash card with an external antenna port.

Hmmm, I wonder what those sleeves go for these days...

--- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)"
<ajfarmer@s...> wrote:
> I use a Pocket PC and Netstumbler to align antennas on long links.
Hook it
> directly to the antenna with a pigtail. Works great.
>
> 73!
>
> A.J. Farmer, AJ3U
> http://www.aj3u.com
>
>
> -----Original Message-----
> From: J. Beadles [mailto:jbeadles@p...]
> Sent: Monday, March 07, 2005 5:22 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Y'know what this group needs?
>
>
>
> A small and cheap 2m to 2.4GHz transverter. It occurs to me, now
> that the Wild Ride is coming up to us, that when you are hanging
> 100ft on a tower, that pointing these high gain 2.4GHz antennas is
> somewhat difficult. I'm still convinced (without proof) that our
> problem getting our 13 mi RS1 to ACoE path to work was an antenna
> pointing issue.

>
> It was flat impossible to get any signal strength readings from the
> WAP11. All we had was a works - doesn't work from the wap. We
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> 3 days (nights, actually) trying to get that path to work, and it
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> installer can hook onto the antenna and use the HT signal strength
> reading to dial in the antenna.
>
> Similar transverters for other freqs would probably be useful as
> well. Fortunately, we are a working group off the NTMS for a
> reason! Hey Joe, what do you think?
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Yahoo! Groups Links

554. Re: Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-08 17:04:46 UTC
From: J. Beadles
Topic: 540 Message: 554

Ok. A quick eBay search for iPaq sleeves puts them in the $39 range, which isn't TOO bad. Or, at least, a lot better than they were the last time I looked, which was in the $90 range.

--- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)" <ajfarmer@s...> wrote:
> I have an Amigo PD-600C which has a built in PC Card slot (no sleeve
> needed). They don't make them any more though - the company went belly-up.
> I have also used a Dell Axim with a Compact Flash to PC Card adapter.
>
> 73!
>
> A.J. Farmer, AJ3U
> http://www.aj3u.com
>
>
> -----Original Message-----
> From: J. Beadles [mailto:jbeadles@p...]
> Sent: Monday, March 07, 2005 7:36 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Re: Y'know what this group needs?
>
>
>
> I take it you were using a pccard sleeve? I haven't seen a compact
> flash card with an external antenna port.
>
> Hmmm, I wonder what those sleeves go for these days...
>
> --- In ntms-hsmm@yahoogroups.com, "A.J. Farmer \(AJ3U\)"
> <ajfarmer@s...> wrote:
> > I use a Pocket PC and Netstumbler to align antennas on long links.
> Hook it
> > directly to the antenna with a pigtail. Works great.
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> > 73!
> >
> > A.J. Farmer, AJ3U
> > http://www.aj3u.com
> >
> >
> > -----Original Message-----

> > From: J. Beadles [mailto:jbeadles@p...]
> > Sent: Monday, March 07, 2005 5:22 PM
> > To: ntms-hsmm@yahoogroups.com
> > Subject: [ntms-hsmm] Y'know what this group needs?
> >
> >
> >
> > A small and cheap 2m to 2.4GHz transverter. It occurs to me, now
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> > somewhat difficult. I'm still convinced (without proof) that our
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> Yahoo! Groups Links

555. Re: Linksys WET-11 at the dish with

Yahoo group: DAWG-HSMM
Date: 2005-03-08 19:29:53 UTC
From: KC2MMi
Topic: 555 Message: 555

Randy, what kind of dish.antenna are you using at both ends with that?

Jared

556. Re: [ntms-hsmm] Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-08 19:31:09 UTC
From: KC2MMi
Topic: 540 Message: 556

----- Original Message -----
From: <dubose@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Tuesday, March 08, 2005 9:14 AM
Subject: Re: [ntms-hsmm] Y'know what this group needs?

Quoting "J. Beadles" <jbeadles@...>:
>
>
> A small and cheap 2m to 2.4GHz transverter. It occurs to me, now
> that the Wild Ride is coming up to us, that when you are hanging
> 100ft on a tower, that pointing these high gain 2.4GHz antennas is
> somewhat difficult. I'm still convinced (without proof) that our
> problem getting our 13 mi RS1 to ACoE path to work was an antenna
> pointing issue.
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I've found the same problem and solved it by using at least a 45 deg panel
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> which do give us signal strength readings, but it'll still be tricky
> in that the installer probably won't have a laptop up there on the
> tower.
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There's nothing like a medium power laser blinking CQ and and pair of good
glasses for aiming.

>
> I'm thinking that what we need is a 2m to 2.4GHz transverter that the
> installer can hook onto the antenna and use the HT signal strength
> reading to dial in the antenna.
>

That would work.

Walt/K5YFW

>
> Similar transverters for other freqs would probably be useful as
> well. Fortunately, we are a working group off the NTMS for a
> reason! Hey Joe, what do you think?

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557. Re: [ntms-hsmm] Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-09 00:58:47 UTC
From: Gregg Wonderly
Topic: 540 Message: 557

jbeadles@... wrote:
> Actually, I was hoping to drag Joe into this. He and I were talking
> about this some weeks ago, and he is thinking that it might be
> possible if a really cheap VFO could be made stable enough. I think
> his thinking is that the widespread availability of consumer grade
> hardware in this band, that there need to be cheapish sources stable
> enough. Don't ask me, Joe's going to be the authority here.
>
> Interesting idea about simply trying to drop the SSID beacon down to
> audio. I know my house AP sure gets into my 2.4 video transmitter.
> Hey, there's a thought....

I have a metric boat load of 2.4ghz TV down converters that we retrieved from heartland when they closed shop here in Tulsa. I'm planning on taking them (and other 75ohm and 300ohm TV doodads) to the Green Country Ham Fest in Claremore OK (http://greencountryhamfest.org) weekend after next to raise some money for our club.

Gregg Wonderly
W5GGW

558. RE: [ntms-hsmm] Digest Number 167

Yahoo group: DAWG-HSMM
Date: 2005-03-09 13:08:32 UTC
From: Randall Dunning
Topic: 558 Message: 558

I have a SSB 2.4GHz to 2M down converter (UBK-2000) that would probably work for receive. (Transmit into the thing and very bad things happen!) I also have a XMIT blocker that passes the received signal while presenting an impossibly high SWR to the transmitter.

See: http://www.sbsusa.com/modes.html to see the UEK-3000 and "The Protector" (30 watts FM and 50 watts SSB dissipation, 0.1 dB insertion loss)

Cheerio

RD

"TOP SECRET, DESTROY BEFORE READING"
A Favorite Security Caveat

[Non-text portions of this message have been removed]

559. Small Steps

Yahoo group: DAWG-HSMM
Date: 2005-03-09 12:45:20 UTC
From: Bob and Debbie Kmak
Topic: 559 Message: 559

Guys,

I've been able to build the Sveasoft Alchemy 6.0 load and flash it onto my v2.2 WRT54G. It seems to work and after putzing around with scp (secure copy between hosts) I've been able to copy over 500k of files to the 54G's ramdisk. So maybe space is not as much of an issue as I thought it would be. Unfortunately, the du (disk usage) and df (disk free space) commands don't seem to work with the ramdisk. du reports 0% used and 0% free, both clearly wrong. Oh well.

Now to building aprsd with the cross-compiler and then who knows what could happen. I've got the AD233BK rs-232 kit but haven't installed it yet.

73,

Bob K5WO

560. Re: [ntms-hsmm] Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-09 13:49:16 UTC
From: jbeadles@pobox.com
Topic: 540 Message: 560

On 8 Mar 2005 at 18:58, Gregg Wonderly wrote:

>
> jbeadles@... wrote:
> > Actually, I was hoping to drag Joe into this. He and I were talking
> > about this some weeks ago, and he is thinking that it might be
> > possible if a really cheap VFO could be made stable enough. I think
> > his thinking is that the widespread availability of consumer grade
> > hardware in this band, that there need to be cheapish sources stable
> > enough. Don't ask me, Joe's going to be the authority here.
> >
> > Interesting idea about simply trying to drop the SSID beacon down to
> > audio. I know my house AP sure gets into my 2.4 video transmitter.
> > Hey, there's a thought....
>
> I have a metric boat load of 2.4ghz TV down converters that we retrieved
> from heartland when they closed shop here in Tulsa. I'm planning on
> taking them (and other 75ohm and 300ohm TV doodads) to the Green Country
> Ham Fest in Claremore OK (http://greencountryhamfest.org) weekend after
> next to raise some money for our club.

>grin< I've always wondered how many units was in a metric boatload.
What's the form factor on those downconverters?

561. Re: [ntms-hsmm] Digest Number 167

Yahoo group: DAWG-HSMM
Date: 2005-03-09 14:12:01 UTC
From: Joe Jurecka
Topic: 558 Message: 561

Hi I've got a couple of things I'm pondering.

1. Is learning how to design matching networks for power amplifiers (e.g. 802.11) (cheap
2. Is putting the theory together to build a phase locked VCO (cheap) Need to obtain VCO from Sirenza or another company (low qty is hard to come by)
3. I need to build a 2304 transverter anyhow. Expanding to 2400, with the design methodology I intend to use will be a no-brainer.

Hard part is getting some time in the evenings!
Joe

562. Re: Digest Number 167

Yahoo group: DAWG-HSMM
Date: 2005-03-09 16:17:21 UTC
From: J. Beadles
Topic: 558 Message: 562

--- In ntms-hsmm@yahoogroups.com, "Joe Jurecka" <n5pyk@h...> wrote:
> Hi I've got a couple of things I'm pondering.
>
> 1. Is learning how to design matching networks for power amplifiers
(e.g.
> 802.11) (cheap
> 2. Is putting the theory together to build a phase locked VCO
(cheap) Need
> to obtain VCO from Sirenza or another company (low qty is hard to
come by)
> 3. I need to build a 2304 transverter anyhow. Expanding to 2400,
with the
> design methodology I intend to use will be a no-brainer.
>
> Hard part is getting some time in the evenings!
> Joe

Joe, what's the part number on that VCO? Got a low count cost?

563. Re: Small Steps

Yahoo group: DAWG-HSMM
Date: 2005-03-09 16:20:06 UTC
From: J. Beadles
Topic: 559 Message: 563

Outstanding! Good news, Bob. Thanks!

--- In ntms-hsmm@yahoogroups.com, "Bob and Debbie Kmak" <bdkmak@c...>
wrote:
> Guys,
>
> I've been able to build the Sveasoft Alchemy 6.0 load and flash it
onto my
> v2.2 WRT54G. It seems to work and after putzing around with scp
(secure copy
> between hosts) I've been able to copy over 500k of files to the
54G's
> ramdisk. So maybe space is not as much of an issue as I thought it
would be.
> Unfortunately, the du (disk usage) and df (disk free space)
commands don't
> seem to work with the ramdisk. du reports 0% used and 0% free, both
clearly
> wrong. Oh well.
>
> Now to building aprsd with the cross-compiler and then who knows
what could
> happen. I've got the AD233BK rs-232 kit but haven't installed it
yet.
>
> 73,
>
> Bob K5WO

564. RE: VCOs

Yahoo group: DAWG-HSMM
Date: 2005-03-09 23:16:20 UTC
From: Ken Peter
Topic: 558 Message: 564

>From: "J. Beadles"
>Date: Wed, 09 Mar 2005 16:17:21 -0000
>X-Yahoo-Profile: n5oom
>Joe, what's the part number on that VCO? Got a low count cost?

I dunno what prices you guys found for Sirenza VCOs...
I have a small quantity of 5V 2300-2450 ZComms that I got from
rfextra's store on ebay. $19.99 (qty4) "rfbasic at yahoo dot com"

I only need 2 of those VCOs for now. Leaving me with 2 extras.
I also have 4 more UMZ 2156-2224mhz VCO's that need a home.

565. Re: [ntms-hsmm] Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-10 03:59:47 UTC
From: Gregg Wonderly
Topic: 540 Message: 565

jbeadles@... wrote:
> What's the form factor on those downconverters?

They are a yagi on a beam meant to be coupled to a dish. The yagi points into the dish for gain.

Gregg Wonderly
W5GGW

566. Re: [ntms-hsmm] Y'know what this group needs?

Yahoo group: DAWG-HSMM
Date: 2005-03-10 04:24:24 UTC
From: Gregg Wonderly
Topic: 540 Message: 566

>gregg.wonderly@... wrote:
>>I have a metric boat load of 2.4ghz TV down converters that we retrieved
>>from heartland when they closed shop here in Tulsa. I'm planning on
>>taking them (and other 75ohm and 300ohm TV doodads) to the Green Country
>>Ham Fest in Claremore OK (http://greencountryhamfest.org) weekend after
>>next to raise some money for our club.

>grin< I've always wondered how many units was in a metric boatload.

I believe that I have somewhere around 500 of these. We also got perhaps 1000 each of rubber coax boots, 300 ohm couplers etc. I have perhaps 50 cable converter boxes with remote controls. These look pretty rough.

There are some filters which I don't remember the range on, but I believe that they are band reject to throw out the 2.4ghz band because heartland was operating at 2.5ghz. The down converters put our 2.4ghz segment out at about channel 12-14 if I remember right. They had to be quiet from some channel (perhaps 24) down so that local, broadcast, TV worked. They require an 18v DC power source on the coax to operate. We did not get any large number of the power insertion devices. We have some, but none for sale.

I can get some digital pictures if anyone is interested. If there is enough interest, I might just EBay them.

Gregg Wonderly
W5GGW

567. Netowrk Performance Tool

Yahoo group: DAWG-HSMM
Date: 2005-03-10 17:33:15 UTC
From: Leo
Topic: 567 Message: 567

I was wondering if anyone here has a preference on network performance software that may be downloadable as a demo or for purchase?

Leo, N5JEP

568. 05 Hamcom HSMM Programming - Update

Yahoo group: DAWG-HSMM
Date: 2005-03-11 19:39:50 UTC
From: J. Beadles
Topic: 568 Message: 568

All,

The Hamcom web site now has a web form to collect information for presentations. Visit the Hamcom web site and click on "Presenters" on the right hand menu. Please fill out the form once for each different presentation you would like to do.

http://www.hamcom.org/

If you think you might be interested in presenting, please sign up as early as possible so that we can advertise your presentation and drive up interest.

At this time, I have the following presentations confirmed (but presenters, please still go back and fill out the form):

HSMM: Packaging for Outdoor Use - Tony Campbell W5ADC
HSMM: Using the Linksys WRT54G - John Beadles N5OOM
Intro to HSMM - John Beadles N5OOM

Gerry Creager and Brett Neilson will not be available, so we won't have them for presentations. I'd really like to have some other HSMM presentations, including an introduction to internet routing and subnetting. Anyone? Anyone?

569. 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-11 23:36:55 UTC
From: Douglas Kilgore
Topic: 569 Message: 569

Keith Pugh W5IU said the Lockheed Martin Amateur Radio Club is planning for the next high altitude balloon launch. He wondered about the feasibility of putting 802.11b in the psyload. The next balloon planning meeting is Sunday afternoon Apr 3.

What equipment and power would be required? What antenna? How would tracking be done?

Who wants to pursue this?

Doug KD5OUG

570. RE: [ntms-hsmm] 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-14 19:17:07 UTC
From: Ken Peter
Topic: 569 Message: 570

I allready done some thinking on this.
Circular patch... Appears horizontal turnstile from the side.
Quadrature coupler and two amps...

571. Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-14 22:48:02 UTC
From: J. Beadles
Topic: 569 Message: 571

--- In ntms-hsmm@yahoogroups.com, "Ken Peter" <kenpeter@h...> wrote:
> I allready done some thinking on this.
> Circular patch... Appears horizontal turnstile from the side.
> Quadrature coupler and two amps...

Agree. One additional thing I was thinking - sometimes these things get hung on trees on recovery, which might put the circular patch facing the ground. D'you think it would be possible to put a little pin diode antenna switch on there so it could be switched to a vertical omni after it comes down?

572. A few pics from this weekend

Yahoo group: DAWG-HSMM
Date: 2005-03-15 04:16:40 UTC
From: J. Beadles
Topic: 572 Message: 572

KD5OUG and N5OOM demonstrating HSMM at the Irving Hamfest. We had some pretty good interest.

http://www.n5oom.org/hsmm/photos/kd5oug_irving_hamfest/

Pics of the NT5NT AP before mounting on top of the 260ft Nortel tower, and 10 months later.

Before:
http://www.n5oom.org/hsmm/photos/nt5nt_ap/

After:
http://www.n5oom.org/hsmm/photos/kd5oug_nt5nt/

The AP was a Linksys WAP11 in a plastic Toro sprinkler controller box. After one summer and winter cycle, the box is in good mechanical shape. The inside was clean and dry, with just a few bug parts on the floor. The outside was stained an icky brown, but the surface was not particularly crazed or deteriorated.

Thanks to Doug Kilgore KD5OUG for the pics.

573. RE: [ntms-hsmm] A few pics from this weekend

Yahoo group: DAWG-HSMM
Date: 2005-03-15 04:27:14 UTC
From: John Champa
Topic: 572 Message: 573

John,

Some FB pics! If you can supply captions and IDs (plus photo credits) for a few of your favorites, we can try to get them into our HSMM column in the next issue of CQ VHF.

Thanks,
John - K8OCL

>From: "J. Beadles" <jbeadles@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: ntms-hsmm@yahoogroups.com
>Subject: [ntms-hsmm] A few pics from this weekend
>Date: Tue, 15 Mar 2005 04:16:40 -0000
>

[Non-text portions of this message have been removed]

574. HSMM Meeting Reminder - Thur. Mar. 17

Yahoo group: DAWG-HSMM
Date: 2005-03-15 17:47:49 UTC
From: Douglas Kilgore
Topic: 574 Message: 574

The NTMS-HSMM working group will meet on Thursday, Mar 17 at Chuck's Hamburger, 502 Spanish Village Shopping Center, NW Corner Coit and Arapaho in North Dallas. Come at 6:30pm and buy dinner then we'll have the meeting at 7:00pm. Talk-in on 147.12+

Leo Salas N5JEP from Paris, TX will give a presentation on 2.4 Ghz Mesh networking and how Lamar County Amateur Radio Emergency Service (LCARES) uses it for storm spotting.

Other items on the Agenda:
Individual Activity Updates
Progress of WRT54G Conversion
Planning for May 21 Wild Ride Bike Rally

Doug Kilgore KD5OUG

575. RE: [ntms-hsmm] Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-17 16:01:06 UTC
From: Ken Peter
Topic: 569 Message: 575

> > I allready done some thinking on this.
> > Circular patch... Appears horizontal turnstile from the side.
> > Quadrature coupler and two amps...
>
>Agree. One additional thing I was thinking - sometimes these things
>get hung on trees on recovery, which might put the circular patch
>facing the ground. D'you think it would be possible to put a little
>pin diode antenna switch on there so it could be switched to a
>vertical omni after it comes down?

A single quadrature driven patch would be leaking plenty of horizontal omni
to the sides... We aren't talking about a higly directional multi-patch
array.
I don't think its a huge issue when you allready have 500mw+500mw or
even more radiating in two othagonal polarizations..

You can easily add a vertically polarized antenna for RX diversity, but what
logic makes the decision which antenna would best transmit? A treed ballon
can not be garaunteed to be oriented any particular way. Would this PIN
diode you suggest have lower insertion loss than a mechanical relay?

576. RE: [ntms-hsmm] Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-17 16:12:57 UTC
From: Ron Cole
Topic: 569 Message: 576

Am I missing something?
I would only be concerned with 2.4 Ghz antenna
performance while in flight.

Why do we need to worry about 2.4 Ghz from the Balloon
in the tree or laying on the ground? By this point in
the mission, Recovery, we are interested in locating
the thing. A 2m beacon, perhaps with APRS Packets,
seems like a better tracking signal to me?

Just my $0.02 worth.

Ron
N5HYH

--- Ken Peter <kenpeter@...> wrote:
>
> > > I allready done some thinking on this.
> > > Circular patch... Appears horizontal turnstile
> from the side.
> > > Quadrature coupler and two amps...
> >
> >Agree. One additional thing I was thinking -
> sometimes these things
> >get hung on trees on recovery, which might put the
> circular patch
> >facing the ground. D'you think it would be
> possible to put a little
> >pin diode antenna switch on there so it could be
> switched to a
> >vertical omni after it comes down?
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> A single quadrature driven patch would be leaking
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> directional multi-patch
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> have 500mw+500mw or
> even more radiating in two othagonal polarizations..
>
> You can easily add a vertically polarized antenna
> for RX diversity, but what
> logic makes the decision which antenna would best
> transmit? A treed ballon
> can not be garaunteed to be oriented any particular

> way. Would this PIN
> diode you suggest have lower insertion loss than a
> mechanical relay?
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Ron

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577. RE: [ntms-hsmm] Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-17 16:20:40 UTC
From: R. B.
Topic: 569 Message: 577

Good one....

Ron Cole <rdcole@...> wrote:
Am I missing something?
I would only be concerned with 2.4 Ghz antenna
performance while in flight.

Why do we need to worry about 2.4 Ghz from the Balloon
in the tree or laying on the ground? By this point in
the mission, Recovery, we are interested in locating
the thing. A 2m beacon, perhaps with APRS Packets,
seems like a better tracking signal to me?

Just my $0.02 worth.

Ron
N5HYH

--- Ken Peter wrote:
>
> > > I allready done some thinking on this.
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> > > Quadrature coupler and two amps...
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Ron

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http://info.mail.yahoo.com/mail_250

Yahoo! Groups Links

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Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

578. Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-17 18:24:09 UTC
From: J. Beadles
Topic: 569 Message: 578

--- In ntms-hsmm@yahoogroups.com, Ron Cole <rdcole@y...> wrote:
> Am I missing something?
> I would only be concerned with 2.4 Ghz antenna
> performance while in flight.
>
> Why do we need to worry about 2.4 Ghz from the Balloon
> in the tree or laying on the ground? By this point in
> the mission, Recovery, we are interested in locating
> the thing. A 2m beacon, perhaps with APRS Packets,
> seems like a better tracking signal to me

Not worried about tracking, obviously APRS / DF is better for this.
My thinking focused around my long past experience with model
rocketry, with rockets getting hung up on trees out of reach of any
practical tool or on private property. Being able to have the AP
running on the ground would allow you to easily extract all your pics
or data even if you aren't able to physically retrieve the payload
before the batts die.

Still, the AP would draw a lot of power, so it would be nice to be
able to command the AP on or off, maybe using the packet subsystem.
Be nice to have a telemetry module for a TNC-X.

> --- Ken Peter <kenpeter@h...> wrote:
> >
> > > > I allready done some thinking on this.
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> > from the side.
> > > > Quadrature coupler and two amps...
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> Do you Yahoo!?
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> http://info.mail.yahoo.com/mail_250

579. Re: [ntms-hsmm] Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-17 18:51:20 UTC
From: dubose@texas.net
Topic: 569 Message: 579

Aren't you going to have a little "timing" problem when the R0 gets to be more than 26 miles away? Walt/K5YFW > > > > >
> --- In ntms-hsmm@yahoogroups.com, Ron Cole wrote:
> > Am I missing something?
> > I would only be concerned with 2.4 Ghz antenna
> > performance while in flight.
> >
> > Why do we need to worry about 2.4 Ghz from the Balloon
> > in the tree or laying on the ground? By this point in
> > the mission, Recovery, we are interested in locating
> > the thing. A 2m beacon, perhaps with APRS Packets,
> > seems like a better tracking signal to me?
>
> Not worried about tracking, obviously APRS / DF is better for this. <> BR> > My thinking focused around my long past experience with model
> rocketry, with rockets getting hung up on trees out of reach of any
> practical tool or on private property. Being able to have the AP
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>
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> able to command the AP on or off, maybe using the packet subsystem. <> BR> > Be nice to have a telemetry module for a TNC-X.
>
>
> > --- Ken Peter wrote:
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> > > A single quadrature driven patch would be leaking
> > > plenty of horizontal omni

> > > to the sides... We aren't talking about a higly
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> > > array.
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> > > logic makes the decision which antenna would best
> > > transmit? A treed ballon
> > > can not be garaunteed to be oriented any particular
> > > way. Would this PIN
> > > diode you suggest have lower insertion loss than a
> > > mechanical relay?
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> > > ntms-hsmm-unsubscribe@yahoogroups.com
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580. Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-17 18:51:14 UTC
From: J. Beadles
Topic: 569 Message: 580

--- In ntms-hsmm@yahoogroups.com, "Ken Peter" <kenpeter@h...> wrote:
> > > I allready done some thinking on this.
> > > Circular patch... Appears horizontal turnstile from the side.
> > > Quadrature coupler and two amps...
> >
> >Agree. One additional thing I was thinking - sometimes these
things
> >get hung on trees on recovery, which might put the circular patch
> >facing the ground. D'you think it would be possible to put a
little
> >pin diode antenna switch on there so it could be switched to a
> >vertical omni after it comes down?
>
> A single quadrature driven patch would be leaking plenty of
horizontal omni
> to the sides... We aren't talking about a higly directional multi-
patch
> array.
> I don't think its a huge issue when you allready have 500mw+500mw or
> even more radiating in two othagonal polarizations..
>
> You can easily add a vertically polarized antenna for RX diversity,
but what
> logic makes the decision which antenna would best transmit? A treed
ballon
> can not be garaunteed to be oriented any particular way. Would this
PIN
> diode you suggest have lower insertion loss than a mechanical relay?

I'm thinking about the utility of the AP for data collection after landing, assuming the payload is physically inaccessible. I like the idea of having a gain vertical for recovery data collection, since you have absolutely no guarantee that the package won't wind up in the middle of someone's deer lease in the middle of hunting season and no way to find the owner.

I can see using a high power amp during the flight, but I'm thinking that on landing you'd want to reduce power consumption after it lands so the operation of your recovery aids is prolonged. Maybe your flight logic shuts the AP and amp off on landing and you have to telecommand it back on using VHF packet or some such to extract the flight data. Flight timer or GPS altitude can cause AP to switch antennas, that's easy enough.

I can see four use cases:

1. Payload cannot be found

End of problem.

2. Payload is recovered.

Again, end of problem.

2. Payload is accessible only via RF, is on the ground, random orientation

If operators can get within range but not hear the AP, can command the payload to switch AP antennas until the AP is heard.

4. Payload is accessible only via RF, flight orientation

If the payload is sitting or hanging in flight orientation, vertical pol antenna gives best range distance performance.

My long-past experience with model rockets had the rockets hanging more or less vertically with the parachute caught under the tree. The limbs where the leaves are are often too small diameter to physically catch a payload, but are dense enough to snag the parachute and leave it hanging in the air. Certainly no guarantee, any your experiences may vary wildly from mine.

I have no real opinion for antenna switching mechanisms, I bow to your expertise. For an antenna, I was thinking of taking out the flexible printed circuit antenna out of one of the commercial 6db desktop antennas.

Just thinking out loud. None of these is a solid concern, but if you are going to put the AP on there anyway...

581. Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-17 18:52:19 UTC
From: J. Beadles
Topic: 569 Message: 581

--- In ntms-hsmm@yahoogroups.com, dubose@t... wrote: > Aren't you going to have a little "timing" problem when the R0 gets to be more > than 26 miles away? > > Walt/K5YFW > > > > > > > > > > >
> > --- In ntms-hsmm@yahoogroups.com, Ron Cole wrote:
> > > Am I missing something?
> > > I would only be concerned with 2.4 Ghz antenna
> > > performance while in flight.
> > >
> > > Why do we need to worry about 2.4 Ghz from the Balloon
> > > in the tree or laying on the ground? By this point in
> > > the mission, Recovery, we are interested in locating
> > > the thing. A 2m beacon, perhaps with APRS Packets,
> > > seems like a better tracking signal to me
> >
> > Not worried about tracking, obviously APRS / DF is better for this. > <> BR> > > My thinking focused around my long past experience with model
> > rocketry, with rockets getting hung up on trees out of reach of any
> > practical tool or on private property. Being able to have the AP
> > running on the ground would allow you to easily extract all your pics
> > or data even if you aren't able to physically retrieve the payload
> > before the batts die.
> >
> > Still, the AP would draw a lot of power, so it would be nice to be
> > able to command the AP on or off, maybe using the packet subsystem. > <> BR> > > Be nice to have a telemetry module for a TNC-X.
> >
> >
> > > --- Ken Peter wrote:
> > > >
> > > > > > I allready done some thinking on this.
> > > > > > Circular patch... Appears horizontal turnstile
> > > > from the side.
> > > > > > Quadrature coupler and two amps...
> > > > >
> > > > >Agree. One additional thing I was thinking -
> > > > sometimes these things
> > > > >get hung on trees on recovery, which might put the
> > > > circular patch
> > > > >facing the ground. D'you think it would be
> > > > possible to put a little
> > > > >pin diode antenna switch on there so it could be
> > > > switched to a
> > > > >vertical omni after it comes down?
> > > >
> > > > A single quadrature driven patch would be leaking

> > > > plenty of horizontal omni
> > > > to the sides... We aren't talking about a higly
> > > > directional multi-patch
> > > > array.
> > > > I don't think its a huge issue when you allready
> > > > have 500mw+500mw or
> > > > even more radiating in two othagonal polarizations..
> > > >
> > > > You can easily add a vertically polarized antenna
> > > > for RX diversity, but what
> > > > logic makes the decision which antenna would best
> > > > transmit? A treed ballon
> > > > can not be garaunteed to be oriented any particular
> > > > way. Would this PIN
> > > > diode you suggest have lower insertion loss than a
> > > > mechanical relay?

582. Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-17 18:55:44 UTC
From: J. Beadles
Topic: 569 Message: 582

--- In ntms-hsmm@yahoogroups.com, dubose@t... wrote: > Aren't you going to have a little "timing" problem when the R0 gets to be more > than 26 miles away? > > Walt/K5YFW Yeah. That's solvable though, isn't the world record something like 80 miles? If the flight computer can talk to the AP admin software, it might be able to adjust the timing and packet length parameters based on flight time or, more likely, GPS height. The Sveasoft firmware permits this, and has been used for long bridge shots. I'm getting ready to research this pretty hard when we start doing our Wild Ride testing. > > --- In ntms-hsmm@yahoogroups.com, Ron Cole wrote:
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> > > performance while in flight.
> > >
> > > Why do we need to worry about 2.4 Ghz from the Balloon
> > > in the tree or laying on the ground? By this point in
> > > the mission, Recovery, we are interested in locating
> > > the thing. A 2m beacon, perhaps with APRS Packets,
> > > seems like a better tracking signal to me
> >

583. 2.4GHz mobile antenna deal

Yahoo group: DAWG-HSMM
Date: 2005-03-17 18:59:43 UTC
From: J. Beadles
Topic: 583 Message: 583

Randy Dunning KC5QHH reports that a rep from the NGC/Comet company is willing to sell these flexible whip 7.4dB gain 2.4GHz antennas for $40. They require an N connectorized mag mount, not sure if they come with the antenna. I've asked Randy to verify.

http://www.cometantenna.com/newPro_detail.php?ID=220
http://www.cometantenna.com/pdfs/sf-245spr%20spec%20sheet.pdf

Also not sure if we have to do a group purchase or can do a one at a time. I'll ask about that also.

584. Re: [ntms-hsmm] Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-17 20:44:47 UTC
From: Jeff King
Topic: 569 Message: 584

Not to spoil the fun, but..... If the goal is simply "to see if it can be done" I give you a big attaboy, but if your looking for something practical, I can't see this being that useful. Remember, let alone the much stronger signal 802.11b needs compared to narrowband modes, your going to be on a part 15 ISM band, with a omnidirectional antenna, with a LOS radio horizon of over 300 miles diameter. In other words, your going to be competing with every Part 15 AP in that 70,000+ square mile area. So even if you could pull the link with a 24dBi on the ground end, the noise floor at the balloon is going to be the gating factor. My practical experince in warflying, is I'm getting less then 1 mile range. Much over 3000 feet AGL I simply stop seeing AP's. Now, granted, I haven't installed a outdoor antenna yet, but I don't see it helping a whole bunch. Some of the FreeWave or AeroComm/Maxstream FH 900mhz products might be a bit more robust. We ran some FreeWave's on a UAV at they seemed fairly bullet proof, but we only went out a few miles. Good luck Jeff wb8wka "J. Beadles" wrote: --- In ntms-hsmm@yahoogroups.com, dubose@t... wrote: > Aren't you going to have a little "timing" problem when the R0 gets to be more > than 26 miles away? > > Walt/K5YFW Yeah. That's solvable though, isn't the world record something like 80 miles? If the flight computer can talk to the AP admin software, it might be able to adjust the timing and packet length parameters based on flight time or, more likely, GPS height. The Sveasoft firmware permits this, and has been used for long bridge shots. I'm getting ready to research this pretty hard when we start doing our Wild Ride testing. > > --- In ntms-hsmm@yahoogroups.com, Ron Cole wrote:
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> > > the thing. A 2m beacon, perhaps with APRS Packets,
> > > seems like a better tracking signal to me?
> >
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585. Re: [ntms-hsmm] 2.4GHz mobile antenna deal

Yahoo group: DAWG-HSMM
Date: 2005-03-18 15:27:17 UTC
From: Wes Johnston
Topic: 583 Message: 585

I know this will seem like a dumb question, but why would I buy the comet antenna for $40, when http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=61816&item=5761320382&tc=photo is $15. It's a magmount all in one wire cellphone looking antenna rated at 7.5dbi. The comet is 18inches long, are we talking apples and oranges on the gains of these two antennas?

This ebay antenna was my first mobile 2.4gig antenna purchase, and I'm pretty happy with it.... of course I have nothing to compare it to!

Wes
--

Quoting "J. Beadles" <jbeadles@...>:

>
>
> Randy Dunning KC5QHH reports that a rep from the NGC/Comet company is
> willing to sell these flexible whip 7.4dB gain 2.4GHz antennas for
> $40. They require an N connectorized mag mount, not sure if they come
> with the antenna. I've asked Randy to verify.
>
> http://www.cometantenna.com/newPro_detail.php?ID=220
> http://www.cometantenna.com/pdfs/sf-245spr%20spec%20sheet.pdf
>
> Also not sure if we have to do a group purchase or can do a one at a
> time. I'll ask about that also.
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586. Re: 2.4GHz mobile antenna deal

Yahoo group: DAWG-HSMM
Date: 2005-03-18 22:20:37 UTC
From: J. Beadles
Topic: 583 Message: 586

--- In ntms-hsmm@yahoogroups.com, Wes Johnston <yahoo@k...> wrote:
> I know this will seem like a dumb question, but why would I buy the
comet
> antenna for $40, when
> http://cgi.ebay.com/ws/eBayISAPI.dll?
ViewItem&category=61816&item=5761320382&tc=photo
> is $15. It's a magmount all in one wire cellphone looking antenna
rated at
> 7.5dbi. The comet is 18inches long, are we talking apples and
oranges on the
> gains of these two antennas?
>
> This ebay antenna was my first mobile 2.4gig antenna purchase, and
I'm pretty
> happy with it.... of course I have nothing to compare it to!

Not dumb at all. Sometimes it's hard to second guess what other people might do. In this case, this more expensive antenna provides better mounting options. If I were going to mount it permanently on a vehicle I'd be more likely to use this on a bulkhead N mount with LMR400 coming out the bottom than the ebay special (I have one of the 5 db versions) with the short, lossy feedline. If you were going to put one on, say, the DARC club van, this'd be the way to go. Not to mention that their van roof is aluminum so the magnet won't stick.

I first thought it was rubber duck-like but after looking at Randy's more closely it is in a fiberglass radome. However, it is mounted on a spring (not part of the feedline) so that the antenna bends over if struck. So it is a little better in that regard than the fixed antennas I put on my truck before.

> Quoting "J. Beadles" <jbeadles@p...>:
>
> >
> >
> > Randy Dunning KC5QHH reports that a rep from the NGC/Comet
company is
> > willing to sell these flexible whip 7.4dB gain 2.4GHz antennas for
> > $40. They require an N connectorized mag mount, not sure if they
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> > with the antenna. I've asked Randy to verify.
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> > http://www.cometantenna.com/newPro_detail.php?ID=220
> > http://www.cometantenna.com/pdfs/sf-245spr%20spec%20sheet.pdf
> >
> > Also not sure if we have to do a group purchase or can do a one

at a
> > time. I'll ask about that also.
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587. Re: [ntms-hsmm] Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-19 01:28:38 UTC
From: Keith Berry
Topic: 569 Message: 587

One thing you need to think about is where you want to launch and getting permission. We are under Class B airspace here in the DFW area and it is heavily restricted. Even outside of the class B, all of this will need to be coordinated with flight service if you have any kind of payload on it into Class E airspace (above 18K ft.) Keith ----- Original Message ----- From: "Jeff King" To: Sent: Thursday, March 17, 2005 14:44 Subject: Re: [ntms-hsmm] Re: 802.11b on High Altitude Balloon Not to spoil the fun, but..... If the goal is simply "to see if it can be done" I give you a big attaboy, but if your looking for something practical, I can't see this being that useful. Remember, let alone the much stronger signal 802.11b needs compared to narrowband modes, your going to be on a part 15 ISM band, with a omnidirectional antenna, with a LOS radio horizon of over 300 miles diameter. In other words, your going to be competing with every Part 15 AP in that 70,000+ square mile area. So even if you could pull the link with a 24dBi on the ground end, the noise floor at the balloon is going to be the gating factor. My practical experince in warflying, is I'm getting less then 1 mile range. Much over 3000 feet AGL I simply stop seeing AP's. Now, granted, I haven't installed a outdoor antenna yet, but I don't see it helping a whole bunch. Some of the FreeWave or AeroComm/Maxstream FH 900mhz products might be a bit more robust. We ran some FreeWave's on a UAV at they seemed fairly bullet proof, but we only went out a few miles. Good luck Jeff wb8wka "J. Beadles" wrote: --- In ntms-hsmm@yahoogroups.com, dubose@t... wrote: > Aren't you going to have a little "timing" problem when the R0 gets to be more > than 26 miles away? > > Walt/K5YFW Yeah. That's solvable though, isn't the world record something like 80 miles? If the flight computer can talk to the AP admin software, it might be able to adjust the timing and packet length parameters based on flight time or, more likely, GPS height. The Sveasoft firmware permits this, and has been used for long bridge shots. I'm getting ready to research this pretty hard when we start doing our Wild Ride testing. > > --- In ntms-hsmm@yahoogroups.com, Ron Cole wrote:
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> > > seems like a better tracking signal to me.
> >
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588. Re: [ntms-hsmm] Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-19 01:53:33 UTC
From: Ron Cole
Topic: 569 Message: 588

This whole topic started when the Lockeed radio club asked if we would like to provide a package for there next Balloon launch. This will be like the 5th one if memory serves. If they do as in the past the launch occurs from the Cleburne airport early Saturday morning. In the past they have had a Cross band repeater, ATV, APRS and now have asked about a HSMM package. I think it will be an interesting experiment with lots of lessons to be learned about using these devices in a very crowded part 15 band. Ron N5HYH --- Keith Berry wrote: > > One thing you need to think about is where you want > to launch and getting > permission. We are under Class B airspace here in > the DFW area and it is > heavily restricted. Even outside of the class B, > all of this will need to > be coordinated with flight service if you have any > kind of payload on it > into Class E airspace (above 18K ft.) > > Keith > > ----- Original Message ----- > From: "Jeff King" > To: > Sent: Thursday, March 17, 2005 14:44 > Subject: Re: [ntms-hsmm] Re: 802.11b on High > Altitude Balloon > > > > Not to spoil the fun, but..... > > If the goal is simply "to see if it can be done" I > give you a big attaboy, > but if your looking for something practical, I can't > see this being that > useful. Remember, let alone the much stronger signal > 802.11b needs compared > to narrowband modes, your going to be on a part 15 > ISM band, with a > omnidirectional antenna, with a LOS radio horizon of > over 300 miles > diameter. In other words, your going to be competing > with every Part 15 AP > in that 70,000+ square mile area. So even if you > could pull the link with a > 24dBi on the ground end, the noise floor at the > balloon is going to be the > gating factor. > > My practical experince in warflying, is I'm getting > less then 1 mile range. > Much over 3000 feet AGL I simply stop seeing AP's. > Now, granted, I haven't > installed a outdoor antenna yet, but I don't see it > helping a whole bunch. > > Some of the FreeWave or AeroComm/Maxstream FH 900mhz > products might be a bit > more robust. We ran some FreeWave's on a UAV at they > seemed fairly bullet > proof, but we only went out a few miles. > > Good luck > > Jeff wb8wka > > > > "J. Beadles" wrote: > > --- In ntms-hsmm@yahoogroups.com, dubose@t... wrote: > > Aren't you going to have a little "timing" problem > when the R0 gets > to be more > > than 26 miles away? > > > > Walt/K5YFW > > Yeah. That's solvable though, isn't the world > record something like > 80 miles? If the flight computer can talk to the AP > admin software, > it might be able to adjust the timing and packet > length parameters > based on flight time or, more likely, GPS height. > The Sveasoft > firmware permits this, and has been used for long > bridge shots. I'm > getting ready to research this pretty hard when we > start doing our > Wild Ride testing. > > > > --- In ntms-hsmm@yahoogroups.com, Ron Cole > > wrote:
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> > > > seems like a better tracking signal to me.
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> > > > > > Yahoo! Groups SponsorADVERTISEMENT > > > --- > Yahoo! Groups Links > > To visit your group on the web, go to: >

http://groups.yahoo.com/group/ntms-hsmm/ > > To unsubscribe from this group, send an email to: > ntms-hsmm-unsubscribe@yahoogroups.com > > Your use of Yahoo! Groups is subject to the > Yahoo! Terms of Service. > > > _____ > Do You Yahoo!? > Tired of spam? Yahoo! Mail has the best spam > protection around > http://mail.yahoo.com > > [Non-text portions of this message have been > removed] > > > > > Yahoo! Groups Links > > > > > > > > > > > > > Yahoo! Groups Links > > > ntms-hsmm-unsubscribe@yahoogroups.com > > > > > > _____ Do You Yahoo!? Tired of spam? Yahoo! Mail has the best spam protection around http://mail.yahoo.com

589. Re: [ntms-hsmm] Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-21 18:32:58 UTC
From: Jeff King
Topic: 569 Message: 589

OK, fair enough. But you don't need to stick your hand on a stove to know you'll get burnt. I was simply pointing out that a wideband radio, on the most popular ISM band, in a dense urban area, would have quite a wide radio horizon, and hence, a high noise floor. If your dead set on lofting a Part 15 radio, I'd pick a more robust one then a 802.11b link. The FreeWave units I mentioned, they are frequency hopping 900mhz units, putting out one watt. One of those, with a turnstyle antenna on the balloon, with a PC104 embedded Linux webserver/webcam would make a really cool platform. With 115kbps throughput, you should be able to serve up images to a ground based server, and allow the general public to access the balloon via HTTP (the images being mirrored on the ground based server). Use your low data rate 2m APRS to send positional reports, and use those to aim your ground based high gain 900mhz array toward the balloon. I've used two of these on remote projects, one as I earlier metioned, a UofM UAV that used a PC104 computer running QNX, and the other for the UofM sun racer electric car. Both worked quite well. That much being said, thinking about your interest in 802.11b, you might be able to get it to work anyways, thinking about the physics of it. The real issue is the radio RECIEVE horizon of airborne station. No way you can get around this and it is not (that) practical to have a directional antenna on a balloon. The solution to this might be lets say a 30db gain dish (they do make these) and couple that with a 10 watt or so amp for the ground station. The idea being here, is you need to get over the high noise floor the balloon is going to be hearing at altitude. Still think a set of FreeWaves is a better ISM band choice, but the above might be able to get you out 10-20 miles. But don't forget, 100,000 feet is almost 20 miles, let alone the slant range. Anyway you cut it, I think you'll be disappointed with 802.11b on a balloon. Ron Cole wrote: This whole topic started when the Lockeed radio club asked if we would like to provide a package for there next Balloon launch. This will be like the 5th one if memory serves. If they do as in the past the launch occurs from the Cleburne airport early Saturday morning. In the past they have had a Cross band repeater, ATV, APRS and now have asked about a HSMM package. I think it will be an interesting experiment with lots of lessons to be learned about using these devices in a very crowded part 15 band. Ron N5HYH --- Keith Berry wrote: > > One thing you need to think about is where you want > to launch and getting > permission. We are under Class B airspace here in > the DFW area and it is > heavily restricted. Even outside of the class B, > all of this will need to > be coordinated with flight service if you have any > kind of payload on it > into Class E airspace (above 18K ft.) > > Keith > > ----- Original Message ----- > From: "Jeff King" > To: > Sent: Thursday, March 17, 2005 14:44 > Subject: Re: [ntms-hsmm] Re: 802.11b on High > Altitude Balloon > > > > Not to spoil the fun, but..... > > If the goal is simply "to see if it can be done" I > give you a big attaboy, > but if your looking for something practical, I can't > see this being that > useful. Remember, let alone the much stronger signal > 802.11b needs compared > to narrowband modes, your going to be on a part 15 > ISM band, with a > omnidirectional antenna, with a LOS radio horizon of > over 300 miles > diameter. In other words, your going to be competing > with every Part 15 AP > in that 70,000+ square mile area. So even if you > could pull the link with a > 24dBi on the ground end, the noise floor at the > balloon is going to be the > gating factor. > > My practical experince in warflying, is I'm getting > less then 1 mile range. > Much over 3000 feet AGL I simply stop seeing AP's. > Now, granted, I haven't > installed a outdoor antenna yet, but I don't see it > helping a whole bunch. > > Some of the FreeWave or AeroComm/Maxstream FH

900mhz > products might be a bit > more robust. We ran some FreeWave's on a UAV at they > seemed fairly bullet > proof, but we only went out a few miles. > > Good luck > > Jeff wb8wka > > > > "J. Beadles" wrote: > > --- In ntms-hsmm@yahoogroups.com, dubose@t... wrote: > > Aren't you going to have a little "timing" problem > when the R0 gets > to be more > > than 26 miles away? > > > > Walt/K5YFW > > Yeah. That's solvable though, isn't the world > record something like > 80 miles? If the flight computer can talk to the AP > admin software, > it might be able to adjust the timing and packet > length parameters > based on flight time or, more likely, GPS height. > The Sveasoft > firmware permits this, and has been used for long > bridge shots. I'm > getting ready to research this pretty hard when we > start doing our > Wild Ride testing. > > > > --- In ntms-hsmm@yahoogroups.com, Ron Cole > > wrote:
> > > > Am I missing something?
> > > > I would only be concerned with 2.4 Ghz > antenna
> > > > performance while in flight.
> > > >
> > > > Why do we need to worry about 2.4 Ghz from the > Balloon
> > > > in the tree or laying on the ground? By this > point in
> > > > the mission, Recovery, we are interested in > locating
> > > > the thing. A 2m beacon, perhaps with APRS > Packets,
> > > > seems like a better tracking signal to me.
> > >
> > > > > > Yahoo! Groups SponsorADVERTISEMENT > > > --- > Yahoo! Groups Links > > To visit your group on the web, go to: > http://groups.yahoo.com/group/ntms-hsmm/ > > To unsubscribe from this group, send an email to: > ntms-hsmm-unsubscribe@yahoogroups.com > > Your use of Yahoo! Groups is subject to the > Yahoo! Terms of Service. > > > _____ > Do You Yahoo!? > Tired of spam? Yahoo! Mail has the best spam > protection around > http://mail.yahoo.com > > [Non-text portions of this message have been > removed] > > > > > Yahoo! Groups Links > > > > > > > > > > > > Yahoo! Groups Links > > > ntms-hsmm-unsubscribe@yahoogroups.com > > > > > > _____ Do You Yahoo!? Tired of spam? Yahoo! Mail has the best spam protection around http://mail.yahoo.com Yahoo! Groups SponsorADVERTISEMENT --- Yahoo! Groups Links To visit your group on the web, go to: http://groups.yahoo.com/group/ntms-hsmm/ To unsubscribe from this group, send an email to: ntms-hsmm-unsubscribe@yahoogroups.com Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service. _____ Do You Yahoo!? Tired of spam? Yahoo! Mail has the best spam protection around http://mail.yahoo.com [Non-text portions of this message have been removed]

590. WIFI Access Point Question.

Yahoo group: DAWG-HSMM
Date: 2005-03-21 18:57:26 UTC
From: Jerry Karlovich
Topic: 590 Message: 590

I know this is a departure from the "hobby" type posts but I want to install a wireless access point here in the office for my own portability and also for clients to use. Before I go out and start spending doe I would like to know exactly what I need. Right now I have a highspeed Comcast cable modem/router and coming off that a Linksys switch giving me 8 ports to connect the "closed circuit" LAN. I want to add a WAP that will give connectivity to the web but not the LAN. Makes sense? Without having to add another IP address from Comcast.

Open for suggestions.

Jerry KD5OM

591. WiFi card suggestions?

Yahoo group: DAWG-HSMM
Date: 2005-03-21 20:52:28 UTC
From: inmyear2000
Topic: 591 Message: 591

I'm running an older laptop (P3/366) and looking for suggestions for a PCMCIA or Cardbus card to add WiFi. Specifically, for a card that works on b/g or even better a/b/g. Has a good reputation and maximum power/performance. And, is known to be friendly for an external antenna addition for ham use.

Oh, not a zillion dollars, either.<G>

Anyone have suggestions pro/con? It would be nice to find one that could live in my card slot without breaking off the external antenna portion if I put the whole computer "as is" into a bag. And it has to run under NT5 and XP without suspend/hibernate problems.

592. Re: WIFI Access Point Question.

Yahoo group: DAWG-HSMM
Date: 2005-03-21 22:02:52 UTC
From: Jeff Francis
Topic: 590 Message: 592

--- In ntms-hsmm@yahoogroups.com, "Jerry Karlovich" <kd5om@k...> wrote:
>
> I know this is a departure from the "hobby" type posts but I want to
> install a wireless access point here in the office for my own
> portability and also for clients to use. Before I go out and start
> spending doe I would like to know exactly what I need. Right now I
> have a highspeed Comcast cable modem/router and coming off that a
> Linksys switch giving me 8 ports to connect the "closed circuit" LAN.
> I want to add a WAP that will give connectivity to the web but not
> the LAN. Makes sense? Without having to add another IP address from
> Comcast.
>
> Open for suggestions.
>
> Jerry KD5OM

So there's a "right" answer, and a simple/cheap answer, depending on your budget, skill level with IP routing/firewalilng, and desired investment in time.

I'm making the following assumptions here:

1. Your cable service terminates in some sort of Comcast modem.
2. You have a NAT router (DLink, Linksys, Brand-X) plugged into the modem.
3. Your computers are plugged into the NAT router (or possibly into a hub/switch, which is in turn plugged into the NAT router).

If that's correct, the "right" solution would be to replace the NAT router with a "real" router (meaning maybe a cheap Cisco 25xx you can get on EBay for next to nothing, or a Linux or FreeBSD box set up for firewalling and routing). This option requires a bit of $$$ and a bit of skill (though not huge amounts of either), but will yield the best (where best == "cleanest, most secure") result.

On the other hand, if you just simply want it to work "right now" and good enough is good enough, you can do the following:

1. Go buy the cheapest NAT router you can find (DLink, Linksys, Brand-X).
2. Unplug all of your PCs from the existing NAT router.
3. Plug your Wireless Access Point into the existing NAT router.
4. Plug the "upstream" side of your new NAT router into one of the ports on your existing NAT router where there used to be a PC plugged in.
5. Plug all of your PCs into the new NAT router.

Note that there are a number of potential "gotchas" with this setup, but unless the IP address ranges given out by the two NAT routers overlap, it *should* work for most home use applications. If the address ranges overlap, just change one of them (ie, if they are both 10.0.0.0/24, change one of them to maybe 192.168.0.0/24). You'll have higher latency (higher ping times) and a few other oddnesses, but the second (new) NAT router should serve to keep your wireless clients out of your wired machines (though not the other way around).

Note that the cheap/simple solution should work even if I made the wrong assumption about the modem and router being separate boxes.

--
-=jeff n0gq=-

593. Re: WIFI Access Point Question.

Yahoo group: DAWG-HSMM
Date: 2005-03-21 22:41:34 UTC
From: Jerry Karlovich
Topic: 590 Message: 593

Thanks for the reply. My Modem/Router by Comcast is the same box. In case your not from around Plano, TX, that's the local cable provider. That box only has 4 spigots but I need 6 so I added the switch and all the office PCs plug into the switch. With 2 additional un-used spigots that terminate in my front lobby area and the other in the conference room. This is so I could tote my laptop to those areas. However, I was wanting to be totally wireless around the office and prevent possible hackers into the LAN. Although I will probably enable the WEP to give a little more protection.

On a side note, I am picking up an open "LINKSYS" access point from somewhere around here. It's very weak but there. You would think who-ever installed those would WEP'd them. Brainless.

Without changing out my Comcast provided Modem/Router what would you do?

tnx de Jerry KD5OM
www.kd5om.com (my passion)
www.korel.com (my company)

-- In ntms-hsmm@yahoogroups.com, "Jeff Francis" <n0gq@n...> wrote:
>
> --- In ntms-hsmm@yahoogroups.com, "Jerry Karlovich" <kd5om@k...>
wrote:
> >
> > I know this is a departure from the "hobby" type posts but I want
to
> > install a wireless access point here in the office for my own
> > portability and also for clients to use. Before I go out and
start
> > spending doe I would like to know exactly what I need. Right now
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> > have a highspeed Comcast cable modem/router and coming off that a
> > Linksys switch giving me 8 ports to connect the "closed circuit"
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> > I want to add a WAP that will give connectivity to the web but
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> > the LAN. Makes sense? Without having to add another IP address
from
> > Comcast.
> >
> > Open for suggestions.
> >
> > Jerry KD5OM
>

> So there's a "right" answer, and a simple/cheap answer, depending
on
> your budget, skill level with IP routing/firewalilng, and desired
> investment in time.
>
> I'm making the following assumptions here:
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> 3. Your computers are plugged into the NAT router (or possibly
into
> a hub/switch, which is in turn plugged into the NAT router).
>
> If that's correct, the "right" solution would be to replace the
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> router with a "real" router (meaning maybe a cheap Cisco 25xx you
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> get on EBay for next to nothing, or a Linux or FreeBSD box set up
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> firewalling and routing). This option requires a bit of $$$ and a
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> of skill (though not huge amounts of either), but will yield the
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> (where best == "cleanest, most secure") result.
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> and good enough is good enough, you can do the following:
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> 10.0.0.0/24, change one of them to maybe 192.168.0.0/24). You'll
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> higher latency (higher ping times) and a few other oddnesses, but
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> second (new) NAT router should serve to keep your wireless clients
out
> of your wired machines (though not the other way around).
>
> Note that the cheap/simple solution should work even if I made the
> wrong assumption about the modem and router being separate boxes.
>
> --
> -=jeff n0gq=-

594. RE: [ntms-hsmm] Re: WIFI Access Point Question.

Yahoo group: DAWG-HSMM
Date: 2005-03-22 01:40:29 UTC
From: Daron Wilson
Topic: 590 Message: 594

>On a side note, I am picking up an open "LINKSYS" access point from
>somewhere around here. It's very weak but there. You would think who-
>ever installed those would WEP'd them. Brainless.

Brainless? What ever happened to the spirit of amateur radio? My WAP at home is on the outside of the home LAN so I leave it open for that specific purpose. Friends with laptops know it, and use it. One of our radio sites (www.ocrg.org <http://www.ocrg.org/>) is under forest service control but has lots of guests, campers, and hams for contesting purposes. We have a 18 mile shot on 2.4Ghz to get a T1 up there for video security, echolink, etc. and again, outside of our LAN we have a wireless router we leave open for folks camping on the hill or just visiting to use.

While I understand your assumption that open WAP's are so because the owner doesn't know better, that isn't always the case.

73

N7HQR

[Non-text portions of this message have been removed]

595. Wifi on balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-22 16:04:16 UTC
From: Joe Jurecka
Topic: 595 Message: 595

Hi,
I think WiFi on a balloon is a workable endeavor. Realize that 99+% of the units that it will "hear" will have low gain dipole grade antennas which don't do a whole lot of good on 802.11. Us hams with the 24dB grids will have a substantial advantage....plus....with some of the BDAs, it should make comms a slam dunk.

My point is don't be afraid to try it out....you never know how pleased you might be until you try!
Joe

596. Re: [ntms-hsmm] Wifi on balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-22 17:12:53 UTC
From: Douglas Kilgore
Topic: 595 Message: 596

We have received an invitation to attend the Apr 3 2:00pm North Texas Balloon Project coordination session at the Lockheed Martin ARC facilities in Ft. Worth. Since I will be out of town for 8 weeks this summer on vacation, we need someone to step forward to be HSMM project leader on this.

I have a Engenius CB3+ Deluxe 200mW +23dbm access point that can be used for this project (after the May 21 Wild Ride). It has a 3db greater receive sensitivity than most APs.

For an antenna, we could use one of Kent Britain's horizontally polarized circuit board antennas.

It would be nice to attach one of those LIGHTWEIGHT IP cameras. I have a D-link DSC-900 but I will be taking it with me on vacation.. Does anyone else have a camera that could be used?

Who wants to take on this project?

Doug Kilgore KD5OUG

Joe Jurecka wrote:

>Hi,
>I think WiFi on a balloon is a workable endeavor. Realize that 99+% of the
>units that it will "hear" will have low gain dipole grade antennas which
>don't do a whole lot of good on 802.11. Us hams with the 24dB grids will
>have a substantial advantage....plus....with some of the BDAs, it should
>make comms a slam dunk.
>
>
>

597. Re: WIFI Access Point Question.

Yahoo group: DAWG-HSMM
Date: 2005-03-22 18:16:26 UTC
From: J. Beadles
Topic: 590 Message: 597

Jerry,

I'd be using WPA if you can humanly do it. WEP is crackable in a matter of minutes these days. It is true that 2/3 of all the access points surveyed had no security enabled, and it is also likely that somebody wanting access will use an unprotected access point. However, it'd be unpleasant to be the target of a script kiddie who happened to have a WEP cracking script loaded.

The only issue with using WPA is that you need to make sure that both your AP and card were both able to handle it. The last time I checked, there were no plans to provide a WPA capable driver for my old Orinoco card.

--- In ntms-hsmm@yahoogroups.com, "Jerry Karlovich" <kd5om@k...>
wrote:
>
> Thanks for the reply. My Modem/Router by Comcast is the same box.
In
> case your not from around Plano, TX, that's the local cable
provider.
> That box only has 4 spigots but I need 6 so I added the switch and
> all the office PCs plug into the switch. With 2 additional un-used
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> conference room. This is so I could tote my laptop to those areas.
> However, I was wanting to be totally wireless around the office and
> prevent possible hackers into the LAN. Although I will probably
> enable the WEP to give a little more protection.
>
> On a side note, I am picking up an open "LINKSYS" access point from
> somewhere around here. It's very weak but there. You would think
who-
> ever installed those would WEP'd them. Brainless.
>
> Without changing out my Comcast provided Modem/Router what would
you
> do?
>
> tnx de Jerry KD5OM
> www.kd5om.com (my passion)
> www.korel.com (my company)
>
> -- In ntms-hsmm@yahoogroups.com, "Jeff Francis" <n0gq@n...> wrote:
> >
> > --- In ntms-hsmm@yahoogroups.com, "Jerry Karlovich" <kd5om@k...>
> wrote:

> > >
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> > > Open for suggestions.
> > >
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> >
> > So there's a "right" answer, and a simple/cheap answer,
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> > your budget, skill level with IP routing/firewalilng, and desired
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> > If that's correct, the "right" solution would be to replace the
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> > router with a "real" router (meaning maybe a cheap Cisco 25xx you
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> > get on EBay for next to nothing, or a Linux or FreeBSD box set up
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> > firewalling and routing). This option requires a bit of $$$ and
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> bit
> > of skill (though not huge amounts of either), but will yield the
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> > (where best == "cleanest, most secure") result.
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> > 3. Plug your Wireless Access Point into the existing NAT
router.
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> > ports on your existing NAT router where there used to be a
PC
> > plugged in.
> > 5. Plug all of your PCs into the new NAT router.
> >
> > Note that there are a number of potential "gotchas" with this
> setup,
> > but unless the IP address ranges given out by the two NAT routers
> > overlap, it *should* work for most home use applications. If the
> > address ranges overlap, just change one of them (ie, if they are
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> > 10.0.0.0/24, change one of them to maybe 192.168.0.0/24). You'll
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> > second (new) NAT router should serve to keep your wireless
clients
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> > of your wired machines (though not the other way around).
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> > Note that the cheap/simple solution should work even if I made
the
> > wrong assumption about the modem and router being separate boxes.
> >
> > --
> > -=jeff n0gq=-

598. Re: WiFi card suggestions?

Yahoo group: DAWG-HSMM
Date: 2005-03-22 18:20:55 UTC
From: J. Beadles
Topic: 591 Message: 598

Having an a/b/g card with an antenna port is a killer. I don't think I've seen any like that.

The old Orinoco cards have antenna ports, but they are relatively low power and not all that sensitive.

Currently, the best liked seem to be the high power SMC cards and the Senao/Engenius cards, both of which put out abt 200mw. SMC and Senao have cards with antenna connectors and with non-removable antennas, so be careful what you get. SMC is available in some stores, while I've only seen people buying Senao on the web.

--- In ntms-hsmm@yahoogroups.com, "inmyear2000" <kc2mmi@v...> wrote:
>
> I'm running an older laptop (P3/366) and looking for suggestions for
> a PCMCIA or Cardbus card to add WiFi. Specifically, for a card that
> works on b/g or even better a/b/g. Has a good reputation and maximum
> power/performance. And, is known to be friendly for an external
> antenna addition for ham use.
>
> Oh, not a zillion dollars, either.<G>
>
> Anyone have suggestions pro/con? It would be nice to find one that
> could live in my card slot without breaking off the external antenna
> portion if I put the whole computer "as is" into a bag. And it has to
> run under NT5 and XP without suspend/hibernate problems.

599. Re: WIFI Access Point Question.

Yahoo group: DAWG-HSMM
Date: 2005-03-22 18:32:08 UTC
From: Jerry Karlovich
Topic: 590 Message: 599

Yes, I meant BRAINLESS!!

Is this the spirit of amateur radio?;
http://securityfocus.com/news/10138

I could of sworn that I was clear in saying I am refering to a wifi
at a business. It was brainless for the I.T. person there at the
place of business in the above mentioned news story to have not
secured those networks. Yes brainless.

Jerry KD5OM

--- In ntms-hsmm@yahoogroups.com, "Daron Wilson" <daron@w...> wrote:
> >On a side note, I am picking up an open "LINKSYS" access point
from
> >somewhere around here. It's very weak but there. You would think
who-
> >ever installed those would WEP'd them. Brainless.
>
>
>
> Brainless? What ever happened to the spirit of amateur radio? My
WAP at
> home is on the outside of the home LAN so I leave it open for that
specific
> purpose. Friends with laptops know it, and use it. One of our
radio sites
> (www.ocrg.org <http://www.ocrg.org/>) is under forest service
control but
> has lots of guests, campers, and hams for contesting purposes. We
have a 18
> mile shot on 2.4Ghz to get a T1 up there for video security,
echolink, etc.
> and again, outside of our LAN we have a wireless router we leave
open for
> folks camping on the hill or just visiting to use.
>
>
>
> While I understand your assumption that open WAP's are so because
the owner
> doesn't know better, that isn't always the case.
>
>
>
> 73

>
> N7HQR
>
>
>
>
>
>
>
> [Non-text portions of this message have been removed]

600. Thoughts on HSMM WiFi Network Security

Yahoo group: DAWG-HSMM
Date: 2005-03-22 18:37:02 UTC
From: J. Beadles
Topic: 600 Message: 600

I've been throwing the idea around of using HSMM as a metropolitan area network, something to use to tie Echolink / IRLP /APRS /Winlink nodes together and to tie them to geographically redundant internet feeds. But the security issue has been a problem.

As we all know, under part 97 we can't run encryption to deny access to the content of the traffic, period. But this is the heart of wireless network security these days. The current trends of internet abuse seem to be hackers putting spyware and robots on thousands of individuals' computers for the purpose of doing identity theft and targeting spam.

With most users' Wifi networks being unsecured, it'd be relatively simple manner for a hacker to drive down a street, letting his computer momentarily connect to each unsecured (or easily crackable) network, dropping off a perilous payload on each network. This would be an easy way of avoiding the front end firewalls that users are putting in place.

Before poo-pooing this idea, understand that this has been done before with analog cell phone networks. In the analog days, it was easy to park next to a freeway with some scanner gear and steal the AMPS phone sids from every cell phone connection the equipment heard. These IDs were then resold. Mine was stolen in just this way.

So what does that mean for an amateur HSMM network based on WiFi equipment? Obviously it means that such a network is very vulnerable to abuse in the long term. I'm thinking that the answer to this is not to shy away from using the technology, but rather to treat the wireless network just as you'd treat the public internet. That is, the wireless interface wouldn't be connected directly to anybody's network, but rather to the WAN port of a router, so that the wireless network is firewalled just like the public internet.

We have only rudimentary methods available to us to keep unlicensed users off our network. We say that this, at least, makes the unlicensed user take a positive action to get into our network, just like we can't keep somebody from buying an HT and accessing a repeater with a fake call sign. An unlicensed person on a 2m repeater; however, can't do actual damage, where a network hacker can. It strikes me that the best way to prevent this is to firewall our own networks, just in case.

Comments?

601. Re: WIFI Access Point Question.

Yahoo group: DAWG-HSMM
Date: 2005-03-22 20:37:21 UTC
From: Jerry Karlovich
Topic: 590 Message: 601

Hi John,

Good seeing ya'll last night at the meet'n.

Wouldn't you know it, that's what I have, an old Orinoco 802.11g card with the little mag mount antenna that plugs into it. I guess what I can do is put in a WAP and set it's antenna so that it only provides service here in the office and it doesn't radiate much furthur than the front door. WEP'd of coarse. My modem is in the center of the office and the office is small. I figure if I'm picking up a feed from the Holiday Inn about a 1,000 feet away I can get through a wall into the next room.

I'll try that this weekend.

Take care,

Jerry KD5OM

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
> Jerry,
>
> I'd be using WPA if you can humanly do it. WEP is crackable in a
> matter of minutes these days. It is true that 2/3 of all the
access
> points surveyed had no security enabled, and it is also likely that
> somebody wanting access will use an unprotected access point.
> However, it'd be unpleasant to be the target of a script kiddie who
> happened to have a WEP cracking script loaded.
>
> The only issue with using WPA is that you need to make sure that
both
> your AP and card were both able to handle it. The last time I
> checked, there were no plans to provide a WPA capable driver for my
> old Orinoco card.
>

602. RE: [ntms-hsmm] Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-23 00:42:30 UTC
From: Ken Peter
Topic: 569 Message: 602

>I have no real opinion for antenna switching mechanisms, I bow to
>your expertise. For an antenna, I was thinking of taking out the
>flexible printed circuit antenna out of one of the commercial 6db
>desktop antennas.

No expertise. Only suggesting a relay might be less lossy than PIN
diodes if you aren't needing it to do any fast switching. Whatever
happened to all that MEMS switch hoopla? Did any reasonable cost
real world parts ever come of that?

I hope you don't mean a commercial 6db patch? Unless you know
of one thats a true circular polarized... The balloon will be turning
and possibly right above you or drifting, no linear polarized antenna
on a baloon would garauntee you can always hit it the right way.

I suppose you could try polarization diversity, but then you are
back to lossy fast PIN switches.

603. RE: [ntms-hsmm] Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-23 00:43:34 UTC
From: Ken Peter
Topic: 569 Message: 603

>I have no real opinion for antenna switching mechanisms, I bow to
>your expertise. For an antenna, I was thinking of taking out the
>flexible printed circuit antenna out of one of the commercial 6db
>desktop antennas.

No expertise. Only suggesting a relay might be less lossy than PIN
diodes if you aren't needing it to do any fast switching. Whatever
happened to all that MEMS switch hoopla? Did any reasonable cost
real world parts ever come of that?

I hope you don't mean a commercial 6db patch? Unless you know
of one thats a true circular polarized... The balloon will be turning
and possibly right above you or drifting, no linear polarized antenna
on a baloon would garauntee you can always hit it the right way.

I suppose you could try polarization diversity, but then you are
back to lossy fast PIN switches.

604. RE: [ntms-hsmm] WIFI Access Point Question.

Yahoo group: DAWG-HSMM
Date: 2005-03-23 01:26:12 UTC
From: Ken Peter
Topic: 590 Message: 604

```
>I know this is a departure from the "hobby" type posts but I want to
>install a wireless access point here in the office for my own
>portability and also for clients to use. Before I go out and start
>spending doe I would like to know exactly what I need. Right now I
>have a highspeed Comcast cable modem/router and coming off that a
>Linksys switch giving me 8 ports to connect the "closed circuit" LAN.
>I want to add a WAP that will give connectivity to the web but not
>the LAN. Makes sense? Without having to add another IP address from
>Comcast.
>
>Open for suggestions.
>
>Jerry KD5OM
```

Cascade two firewalls. Keep your wireless intrusion concerns on the outside your private LAN. VPN in if you need that functionality.

Internet<>CableModem<>WirelessFirewall<>WiredFirewall<>Switch

Assign your Wireless network a different subnet from your wired one. Wireless might be 192.168.0.X , Wired might be 192.168.1.X

605. RE: [ntms-hsmm] Re: WIFI Access Point Question.

Yahoo group: DAWG-HSMM
Date: 2005-03-23 01:45:35 UTC
From: Ken Peter
Topic: 590 Message: 605

```
>From: "Jeff Francis" <n0gq@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: ntms-hsmm@yahoogroups.com
>Subject: [ntms-hsmm] Re: WIFI Access Point Question.
>Date: Mon, 21 Mar 2005 22:02:52 -0000
> So there's a "right" answer, and a simple/cheap answer, depending on
>your budget, skill level with IP routing/firewalilng, and desired
>investment in time.
>
> I'm making the following assumptions here:
>
> 1. Your cable service terminates in some sort of Comcast modem.
> 2. You have a NAT router (DLink, Linksys, Brand-X) plugged into the
> modem.
> 3. Your computers are plugged into the NAT router (or possibly into
> a hub/switch, which is in turn plugged into the NAT router).
>
> If that's correct, the "right" solution would be to replace the NAT
>router with a "real" router (meaning maybe a cheap Cisco 25xx you can
>get on EBay for next to nothing, or a Linux or FreeBSD box set up for
>firewalling and routing). This option requires a bit of $$$ and a bit
>of skill (though not huge amounts of either), but will yield the best
>(where best == "cleanest, most secure") result.
>
> On the other hand, if you just simply want it to work "right now"
>and good enough is good enough, you can do the following:
>
> 1. Go buy the cheapest NAT router you can find (DLink, Linksys,
> Brand-X).
> 2. Unplug all of your PCs from the existing NAT router.
> 3. Plug your Wireless Access Point into the existing NAT router.
> 4. Plug the "upstream" side of your new NAT router into one of the
> ports on your existing NAT router where there used to be a PC
> plugged in.
> 5. Plug all of your PCs into the new NAT router.
>
> Note that there are a number of potential "gotchas" with this setup,
>but unless the IP address ranges given out by the two NAT routers
>overlap, it *should* work for most home use applications. If the
>address ranges overlap, just change one of them (ie, if they are both
>10.0.0.0/24, change one of them to maybe 192.168.0.0/24). You'll have
>higher latency (higher ping times) and a few other oddnesses, but the
>second (new) NAT router should serve to keep your wireless clients out
>of your wired machines (though not the other way around).
>
```

> Note that the cheap/simple solution should work even if I made the
>wrong assumption about the modem and router being separate boxes.
>
>--
>-=jeff n0gq=-

er... sounds like the same suggestion I just gave.

I might point out that neither of our proposed firewall cascade schemes
does anything to keep the wired network's routed NAT/PAT internet traffic
from broadcasting on the wireless side. We may stop straightforward
intrusion
into the protected LAN, but still presents a target for wireless snooping.

Is it possible to exclude the MAC address of the downstream firewall's WAN
adapter from broadcasting on the Wireless?

606. Re: [ntms-hsmm] Re: WIFI Access Point Question.

Yahoo group: DAWG-HSMM
Date: 2005-03-23 04:57:53 UTC
From: John Beadles
Topic: 590 Message: 606

I have a pair of Orinocos too. I'll try the SMC cards as soon as
funding permits.

On 22 Mar 2005 at 20:37, Jerry Karlovich wrote:

>
>
> Hi John,
>
> Good seeing ya'll last night at the meet'n.
>
> Wouldn't you know it, that's what I have, an old Orinoco 802.11g card
> with the little mag mount antenna that plugs into it. I guess what I
> can do is put in a WAP and set it's antenna so that it only provides
> service here in the office and it doesn't radiate much furthur than
> the front door. WEP'd of coarse. My modem is in the center of the
> office and the office is small. I figure if I'm picking up a feed
> from the Holiday Inn about a 1,000 feet away I can get through a wall
> into the next room.
>
> I'll try that this weekend.
>
> Take care,
>
> Jerry KD5OM
>
> --- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
> >
> > Jerry,
> >
> > I'd be using WPA if you can humanly do it. WEP is crackable in a
> > matter of minutes these days. It is true that 2/3 of all the
> access
> > points surveyed had no security enabled, and it is also likely that
> > somebody wanting access will use an unprotected access point.
> > However, it'd be unpleasant to be the target of a script kiddie who
> > happened to have a WEP cracking script loaded.
> >
> > The only issue with using WPA is that you need to make sure that
> both
> > your AP and card were both able to handle it. The last time I
> > checked, there were no plans to provide a WPA capable driver for my
> > old Orinoco card.
> >
>

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> Yahoo! Groups Links
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607. Balloon Project Coordinator Joins NTMS-HSMM list

Yahoo group: DAWG-HSMM
Date: 2005-03-23 14:51:18 UTC
From: Douglas Kilgore
Topic: 607 Message: 607

Welcome aboard Jory. As you can see from the archives, discussion has
been ongoing about putting 802.11b on the balloon.

Please share with us information about the balloon packages.

Doug Kilgore KD5OUG
List Owner

Yahoo! Groups Notification wrote:

>Hello,
>
>The following person would like to join the ntms-hsmm group:
>Email address: jmcint1 <kj5rm@...>
>
>Comment from user:
>I am the package corrdinator for the NTBPt. I would like to join the discussion and offer information and ideas about our balloon packages.
>Thanks and 73
>Jory McIntosh
>KJ5RM
>
>
>

608. RE: [ntms-hsmm] Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-23 15:46:10 UTC
From: Ron Cole
Topic: 569 Message: 608

I agree that a CP Antenna would be preferred.
This would eliminate all of the Commercial 2.4 Ghz
antennas I have seen.

Ron
--- Ken Peter <kenpeter@...> wrote:
>
> >I have no real opinion for antenna switching
> mechanisms, I bow to
> >your expertise. For an antenna, I was thinking of
> taking out the
> >flexible printed circuit antenna out of one of the
> commercial 6db
> >desktop antennas.
>
> No expertise. Only suggesting a relay might be less
> lossy than PIN
> diodes if you aren't needing it to do any fast
> switching. Whatever
> happened to all that MEMS switch hoopla? Did any
> reasonable cost
> real world parts ever come of that?
>
> I hope you don't mean a commercial 6db patch? Unless
> you know
> of one thats a true circular polarized... The
> balloon will be turning
> and possibly right above you or drifting, no linear
> polarized antenna
> on a baloon would garauntee you can always hit it
> the right way.
>
> I suppose you could try polarization diversity, but
> then you are
> back to lossy fast PIN switches.
>
>
>
>
>
> Yahoo! Groups Links
>
>
> ntms-hsmm-unsubscribe@yahoogroups.com
>

>
>
>
>
>

Ron

Do you Yahoo!?
Yahoo! Small Business - Try our new resources site!
http://smallbusiness.yahoo.com/resources/

609. HSMMing in the Clouds

Yahoo group: DAWG-HSMM
Date: 2005-03-23 16:55:24 UTC
From: Jory McIntosh
Topic: 609 Message: 609

Greetings. I am the package coordinator for the North Texas Balloon Project. Its my job to determine what equipment will fly in the packages, verify that their weight falls with the required limits and that their size, antenna, and power requirements are within specified tolerances. Finally on launch day I have to perform prelaunch testing of the equipment, and verify the equipment is functioning at launch. Its a busy job, but a lot of fun. .

I have heard rumors, now confirmed, that the HSMM group was looking into launching an 802.11 access point on a balloon and performing network operation through it. The Lockheed group has considered launching an AP on a launch but felt that we lacked the expertise to successfully accomplish this task. Many of our group run wireless APs at home, some of us including myself have built antennas and done various other modifications to our equipment to increase range and connectivity. However, using an AP at 90,000 feet is a totally different matter. :)

To give you an idea of what environment an AP would be operating in, let me give you a run down on the balloon and all its goodies. Our balloon is a standard weather balloon that we fill with helium up to a lifting value of between 13 and 16 lifting pounds. This value can vary based on the amount of time we want the balloon to stay aloft, and where we want it to land. Below the balloon is a parachute that has been designed to allow a slow decent of a 12 pound weight.

The first package is below the parachute. It contains the APRS, GPS, and the 2m DF beacon, this package is called the "Shuttle". The second package, the "Comm" package, contains the 2m/440 cross-band repeater, and any other special items we want to send up. The third package, "Experimental" package, contains experiments we want to fly. For the September flight the experimental package is being setup by the Bonham club. The fourth package is the "ATV" package, and contains a 1.2 Ghz ATV transmitter.

Ok so that's the balloon, now let's talk about the restrictions as they pertain to the payload.. Federal Aviation Regulations (FAR) part 101 cover the rules for unmanned free balloons. To stay within FAR regulations the entire payload must be less than or equal to 12 pounds. As well the tethers and other items must be able to break and not impose a threat to an aircraft that happens to impact the balloon. In other words we can't put a 45 element beam on the package. :)

Onward to power. Each package has the option of using a lithium battery pack, that normally operates at 12 volts, and has a capacity of 3 amp-hours and weigh of around 2 pounds. These are actually made up of

several lithium cells that run at 3.2 volts, so we can support multiples of cells up to the 12 volt level if we fly equipment that requires less then 12 volts. We use lithium because the output of other battery types decrease as they get cold, and tempatures of -40 F is not unexpected during the flight.

As to antennas, all our antennas are on the out side of the package. For the last few flights we have been using dipoles for the cross-band and APRS. How ever in the past we have used rubber ducks. So your kinda free to use any antennas you want as long as they meet FAR requirements, we have a place on the outside of the package for it, and they don't create interference to other equipment or the balloon tethers on the flight.

So I think the big question is, is there room on the next flight for a HSMM unit? Well there is an empty space in the cross-band package. This package is still being designed but will look like the Apollo capsule when completed. It will have a circumference of about 8 inches and a height of about 10 inches give or take. Currently the cross-band setup is being rebuilt and will use two Alinco credit card radios and a repeater controller. Neither will use a Lithium power pack. So it sounds like we have a space of about six inches wide by four inches long by five inches tall that is free.

How about weight? Well we are early in the game here, but the estimates of the shuttle package are around 4 lbs, the cross band will be 2 lbs, and Doug I think you said your package would be about 3 lbs right? So that's 9 lbs. To be on the safe side, I would say we have between 2 and 3lbs to spare. I am currently not sure that the ATV package is flying this time so that weight is not considered here.

So here are the requirements you should meet to be considered on the flight. All instruments take up less space then six inches wide by four inches long by five inches tall, use 3lbs or less including battery, antenna on the outside of the capsule that meet FAR regulations, will not interfere with the balloon tethers, nor any other equipment, and all equipment can operate at 12 or less volts.

Here are some other considerations. Your equipment could be exposed to -40 F in tempature. In the past we have used hand warmers to keep the equipment warm, but we found that since the package is made of stryofoam the equipment got too hot, so expect your equipment to get very cold. Also you only have 3 amp-hours of power budget, once its gone, your off the air. At 90,000 feet our cross band repeater can easily work into Mississippi, Kansas, New Mexico, and out into the Gulf with 1/2 a watt. Something to consider even with a part 15 device, you'll cover a lot of territory. Finally we did have a tether break on one flight and a package free fell from 73,000 feet. At impact the terminal velocity was calculated at 37 mph. The package was in bad shape but the equipment survived. Just something to keep in mind.

I am very excited about the possibility of flying a 802.11 device on the balloon. I hear that the record for a 802.11 connection is 67 miles, would be interesting to break that, and a good item for QST! I am willing to work with your group to help design a system that is flyable on the balloon. I'll also talk with the balloon committee about the idea, get their input, and see if we can get the weight and power requirements for the next flight nailed down to make things easier for you in designing a system. Please let me know if you would like to fly a 802.11 system on our package during our next launch in September or a future launch.

--
Thanks and 73
Jory
KJ5RM
North Texas Balloon Project
Package Coordinator

610. Re: 802.11b on High Altitude Balloon

Yahoo group: DAWG-HSMM
Date: 2005-03-23 16:56:07 UTC
From: J. Beadles
Topic: 569 Message: 610

--- In ntms-hsmm@yahoogroups.com, "Ken Peter" <kenpeter@h...> wrote:
> >I have no real opinion for antenna switching mechanisms, I bow to
> >your expertise. For an antenna, I was thinking of taking out the
> >flexible printed circuit antenna out of one of the commercial 6db
> >desktop antennas.
>
> No expertise. Only suggesting a relay might be less lossy than PIN
> diodes if you aren't needing it to do any fast switching. Whatever
> happened to all that MEMS switch hoopla? Did any reasonable cost
> real world parts ever come of that?

Okedoke. I haven't looked at PIN diodes for 10 years, so you would
know better than I would. Relay is fine.

> I hope you don't mean a commercial 6db patch? Unless you know
> of one thats a true circular polarized... The balloon will be
turning
> and possibly right above you or drifting, no linear polarized
antenna
> on a baloon would garauntee you can always hit it the right way.
>
> I suppose you could try polarization diversity, but then you are
> back to lossy fast PIN switches.

Nah, not for this app. Go back and reread some of the past msgs.
You can use CP on the bottom of the package for flight access, but I
want a gain omni out the top of the package for post-flight data
collection.

611. Re: HSMMing in the Clouds

Yahoo group: DAWG-HSMM
Date: 2005-03-23 17:20:57 UTC
From: J. Beadles
Topic: 609 Message: 611

--- In ntms-hsmm@yahoogroups.com, Jory McIntosh <kj5rm@k...> wrote:
> Greetings. I am the package coordinator for the North Texas
Balloon
> Project. Its my job to determine what equipment will fly in the
> packages, verify that their weight falls with the required limits
and
> that their size, antenna, and power requirements are within
specified
> tolerances. Finally on launch day I have to perform prelaunch
testing
> of the equipment, and verify the equipment is functioning at
launch.
> Its a busy job, but a lot of fun. .

> --
> Thanks and 73
> Jory
> KJ5RM
> North Texas Balloon Project
> Package Coordinator

Hey Jory, you interested in doing a balloon presentation for
Hamcom? :-D

612. Re: WiFi card suggestions?

Yahoo group: DAWG-HSMM
Date: 2005-03-23 20:48:06 UTC
From: KC2MMi
Topic: 591 Message: 612

<SMC and Senao
have cards with antenna connectors and with non-removable antennas,
so be careful what you get. >
JB- So those are .g/.b cards only? Any specific recommendations for model
number?

I found an IBM a/b/g card clearanced, WPA and WEP and more, and for $25 I'm
willing to open the case and see about adding an antenna. At least it will
get me started.<G>

613. WRT54G Project - Status Report?

Yahoo group: DAWG-HSMM
Date: 2005-03-25 14:50:52 UTC
From: J. Beadles
Topic: 613 Message: 613

Time for a status report... From y'all that is. First, who is working on the WRT54G project? This, for those people joining, is a project to use a Linksys WRT54G 802.11G router to control a KISS based TNC. This would be useful for cheap, configurable APRS digipeaters and Telpac gateways for use with Winlink 2000.

This is possible to do because the WRT54G is built on a Broadcom reference chipset that includes hardware support for two onboard serial ports. These serial ports are accessible by soldering a 10 pin header on the circuit board.

For the most part, we are using the 3rd party firmware source from Sveasoft (www.sveasoft.com) to build the firmware load for the WRT54G. There are several other routers by different manufacturers that use the same chipset and can be used in this way.

At this time, I know of the following activity:

1. Pete Loveall AE5PL, keeper of the JavAPRSsvr software, has compressed a JavAPRSsvr package small enough to possibly

2. Bob Kmak K5WO has been teaching himself how to build the Sveasoft loads.

3. A. J. Farmer AJ3U I know has been experimenting with the Sveasoft loads.

4. I've completed the serial port adapter and a TNC-X and am waiting for a firmware load.

Who else has been actively pursuing this project, and what progress have you had?

614. Airlink 8dbi Directional Antenna on Sale at Fry's

Yahoo group: DAWG-HSMM
Date: 2005-03-26 16:04:51 UTC
From: Douglas Kilgore
Topic: 614 Message: 614

Fry's in Dallas area has on sale an Airlink 8dbi directional antenna for $4.99. It's for Reverse SMA but includes a TNC adapter. This unit should work with the Hawking 500mw amplifier some of us bought.

http://shop2.outpost.com/product/4278424?site=sr:SEARCH:MAIN_RSLT_PG

Sale good thru Tuesday.

Doug KD5OUG

615. Re: [ntms-hsmm] WRT54G Project - Status Report?

Yahoo group: DAWG-HSMM
Date: 2005-03-28 06:14:34 UTC
From: R. B.
Topic: 613 Message: 615

Iv been using various Sveasoft firmware loads since December.

I got a couple WRT54G's V2.0, I'll have to open to see about 10 pin header for serial port. I can set one of them up for APRS testing.

Randy_WAOD_

"J. Beadles" <jbeadles@...> wrote:

Time for a status report... From y'all that is. First, who is working on the WRT54G project? This, for those people joining, is a project to use a Linksys WRT54G 802.11G router to control a KISS based TNC. This would be useful for cheap, configurable APRS digipeaters and Telpac gateways for use with Winlink 2000.

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For the most part, we are using the 3rd party firmware source from Sveasoft (www.sveasoft.com) to build the firmware load for the WRT54G. There are several other routers by different manufacturers that use the same chipset and can be used in this way.

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Who else has been actively pursuing this project, and what progress have you had?

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[Non-text portions of this message have been removed]

616. Re: WRT54G Project - Status Report?

Yahoo group: DAWG-HSMM
Date: 2005-03-28 19:22:09 UTC
From: J. Beadles
Topic: 613 Message: 616

--- In ntms-hsmm@yahoogroups.com, "R. B." <bus_dev1@y...> wrote:
> Iv been using various Sveasoft firmware loads since December.
>
> I got a couple WRT54G's V2.0, I'll have to open to see about 10
pin header for serial port. I can set one of them up for APRS
testing.
>
> Randy_WAOD_

Good! Yell back when you are set up.

> "J. Beadles" <jbeadles@p...> wrote:
>
> Time for a status report... From y'all that is. First, who is
> working on the WRT54G project? This, for those people joining, is
a
> project to use a Linksys WRT54G 802.11G router to control a KISS
> based TNC. This would be useful for cheap, configurable APRS
> digipeaters and Telpac gateways for use with Winlink 2000.

(snip)

> At this time, I know of the following activity:
>
> 1. Pete Loveall AE5PL, keeper of the JavAPRSsvr software, has
> compressed a JavAPRSsvr package small enough to possibly
>
> 2. Bob Kmak K5WO has been teaching himself how to build the
Sveasoft
> loads.
>
> 3. A. J. Farmer AJ3U I know has been experimenting with the
Sveasoft
> loads.
>
> 4. I've completed the serial port adapter and a TNC-X and am
waiting
> for a firmware load.
>
> Who else has been actively pursuing this project, and what progress
> have you had?

617. PCMCIA card choices for external antenna?

Yahoo group: DAWG-HSMM
Date: 2005-03-29 23:18:30 UTC
From: KC2MMi
Topic: 617 Message: 617

I've tried to do my research & would appreciate a reality check. It seems like the only pc cards that are equipped for an external antenna are the Orinoco "Classic", similar Proxim models, and the Enterasys clones of them. And the Enterasys may be the only a/b/g combo with an external antenna connection.

Is that about right?

618. Re: [ntms-hsmm] PCMCIA card choices for external antenna?

Yahoo group: DAWG-HSMM
Date: 2005-03-30 00:10:23 UTC
From: Keith Berry
Topic: 617 Message: 618

There are multiple 'clones' of the Orinoco Silver or Gord with external connectors on them. Included are 2Wire, Lucent, Proxim, Avaya. Some Senao cards also have external connectors.

Depnding on your connection needs, yuo might be able to just use USB adapter to get you the extra gain needed.

73,
Keith KE0FV

----- Original Message -----
From: "KC2MMi" <kc2mmi@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Tuesday, March 29, 2005 5:18 PM
Subject: [ntms-hsmm] PCMCIA card choices for external antenna?

>
> I've tried to do my research & would appreciate a reality check. It seems
> like the only pc cards that are equipped for an external antenna are the
> Orinoco "Classic", similar Proxim models, and the Enterasys clones of
> them.
> And the Enterasys may be the only a/b/g combo with an external antenna
> connection.
>
> Is that about right?
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> Yahoo! Groups Links
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619. internal wireless card and external antenna

Yahoo group: DAWG-HSMM
Date: 2005-03-30 00:36:42 UTC
From: Mr rusty bryant
Topic: 619 Message: 619

All,
I have a Toshiba M25X-S149 laptop with internal
wireless card.

Is there anyway to add an external antenna to an
internal wireless card such as this?

Thanks.

Rusty
150*23*17829

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620. Re: [ntms-hsmm] PCMCIA card choices for external antenna?

Yahoo group: DAWG-HSMM
Date: 2005-03-29 23:45:50 UTC
From: John Beadles
Topic: 617 Message: 620

On 29 Mar 2005 at 18:18, KC2MMi wrote:

>
> I've tried to do my research & would appreciate a reality check. It seems
> like the only pc cards that are equipped for an external antenna are the
> Orinoco "Classic", similar Proxim models, and the Enterasys clones of them.
> And the Enterasys may be the only a/b/g combo with an external antenna
> connection.

Close, but not quite, at least for b/g cards. Some of SMC's high power cards have detachable antennas with RP-MMCX connectors, and Senao has cards with both fixed antennas, and only antenna connectors. Also, some of the fixed APs on the market actually contain a card with an antenna connector. Here's a good research site:

http://www.seattlewireless.net/index.cgi/HardwareComparison

621. RE: [ntms-hsmm] PCMCIA card choices for external antenna?

Yahoo group: DAWG-HSMM
Date: 2005-03-30 00:52:08 UTC
From: Dave Anderson
Topic: 617 Message: 621

There's many more than that, albeit the choices are not great :)

Cisco's LMC-352, being a more costly card has MMCX jacks, 100mw of power and the highest receive sensitivity of any of the cards I've tested, and it's B only (still the best for 11 meg).

Another good card is the SMC Elite Connect card, with RP-MMCX jacks, 200mw of power, again only B, but another good card. Other import variations are available with the same chipset by Senao and a few other OEM's that label them with their name.

The Proxim Classic gold as a B card has the MC connector, and the Proxim Gold B/G card has the MC connector as well. These are the only two I am aware of that are current production models in their non-enterprise grade gear that has the connectors on it.

Cards with A/B/G are very difficult to find, the FCC cracked down on allowing type acceptance of the 5.3ghz band cards with respect to external antenna connectors after looking at what happened with the 2.4 ISM band. They wanted "non standardized" connectors, which by all rights are not really non standard when 10 factories in the orient are churning the connectors out by the thousands :) So they basically tightened up the guidelines that a product will get accepted for with A restrict manufactures from doing much with it.

Cisco -has- a A/B/G PCI card that has a small 2.2dBi antenna on 4 feet of RG174 that can -easily- be converted to use a different antenna, I use a couple of these on SBC's I have a few rooftop bridges in, and they work well in congested 2.4 areas.

Unfortunately, with the tighter restrictions on the 5ghz radios type acceptance regarding external antenna ports, it not only has stunted the growth of the A standard, but pretty much prevented it from ever getting started.

Seeya,
Dave
KG4YZY
www.aprsfl.net
www.fab-corp.com

>-----Original Message-----
>From: KC2MMi [mailto:kc2mmi@...]
>Sent: Tuesday, March 29, 2005 6:19 PM
>To: ntms-hsmm@yahoogroups.com
>Subject: [ntms-hsmm] PCMCIA card choices for external antenna?
>

>
>
>I've tried to do my research & would appreciate a reality
>check. It seems like the only pc cards that are equipped
>for an external antenna are the Orinoco "Classic",
>similar Proxim models, and the Enterasys clones of them.
>And the Enterasys may be the only a/b/g combo with an
>external antenna connection.
>
>Is that about right?
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>Yahoo! Groups Links
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622. RE: [ntms-hsmm] internal wireless card and external antenna

Yahoo group: DAWG-HSMM
Date: 2005-03-30 00:53:18 UTC
From: Dave Anderson
Topic: 619 Message: 622

Most likely, yes.

The lionshare of these cards use what is referred to as a Hirosi U.FL connector to connect to the internal antenna around the screen of most laptops.

If you do have this, pigtails of 6 and 12 inch are available that will connect with 2mm cable (very very small teflon cable) to a RPSMA femail bulkhead, SMA female bulkhead, or Nfemale bulkhead in the case of the one I use.

Seeya,
Dave
KG4YZY
www.aprsfl.net
www.fab-corp.com

-----Original Message-----
From: Mr rusty bryant [mailto:rustyb78@...]
Sent: Tuesday, March 29, 2005 7:37 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] internal wireless card and external antenna

All,
I have a Toshiba M25X-S149 laptop with internal
wireless card.

Is there anyway to add an external antenna to an
internal wireless card such as this?

Thanks.

Rusty
150*23*17829

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<http://us.adserver.yahoo.com/l?M=298184.6018725.7038619.3001176/D=groups/S=
:HM/A=2593423/rand=313223511>

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/

* To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com
<mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

623. RE: [ntms-hsmm] internal wireless card and external antenna

Yahoo group: DAWG-HSMM
Date: 2005-03-30 01:30:40 UTC
From: Mr rusty bryant
Topic: 619 Message: 623

okay, how do i find out the specific location of my
antenna?

rusty
wb4bsd

--- Dave Anderson <dandersn@...> wrote:
>
> Most likely, yes.
>
> The lionshare of these cards use what is referred to
> as a Hirosi U.FL
> connector to connect to the internal antenna around
> the screen of most
> laptops.
>
> If you do have this, pigtails of 6 and 12 inch are
> available that will
> connect with 2mm cable (very very small teflon
> cable) to a RPSMA femail
> bulkhead, SMA female bulkhead, or Nfemale bulkhead
> in the case of the one I
> use.
>
> Seeya,
> Dave
> KG4YZY
> www.aprsfl.net
> www.fab-corp.com
>
>
> -----Original Message-----
> From: Mr rusty bryant [mailto:rustyb78@...]
> Sent: Tuesday, March 29, 2005 7:37 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] internal wireless card and
> external antenna
>
>
> All,
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> wireless card.
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> Is there anyway to add an external antenna to an
> internal wireless card such as this?

>
> Thanks.
>
> Rusty
> 150*23*17829
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> _____
> Do you Yahoo!?
> Yahoo! Small Business - Try our new resources site!
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<http://us.ard.yahoo.com/SIG=1297f3vps/M=298184.6018725.7038619.3001176/D=gr
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> netflix.com/Default?mqso=60190075> click here
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> Yahoo! Groups Links
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>
> * To visit your group on the web, go to:
> http://groups.yahoo.com/group/ntms-hsmm/
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>
> * To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
>
<mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
>
> * Your use of Yahoo! Groups is subject to the Yahoo!
> Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
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> [Non-text portions of this message have been
> removed]
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Do you Yahoo!?
Yahoo! Mail - You care about security. So do we.
http://promotions.yahoo.com/new_mail

624. RE: [ntms-hsmm] internal wireless card and external antenna

Yahoo group: DAWG-HSMM
Date: 2005-03-30 01:35:30 UTC
From: Dave Anderson
Topic: 619 Message: 624

Rusty,

Some of them are under a cover on the bottom of the laptop, similar to the type of cover you'd find over the memory slots.

Some of them put the mini PCI slot under the keyboard. How that comes out varies with notebooks, some a piece of trim snaps in holding the keyboard in place, some have screws in the back (such as dell's) that hold the keyboard in place, and some have clips that are spring loaded that hold the keyboard in place.

Either location, once you fine the mini PCI card you'll fine the two very small antenna cables plugged into the card.

Seeya,
Dave
KG4YZY
www.aprsfl.net
www.fab-corp.com

-----Original Message-----
From: Mr rusty bryant [mailto:rustyb78@...]
Sent: Tuesday, March 29, 2005 8:31 PM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] internal wireless card and external antenna

okay, how do i find out the specific location of my
antenna?

[Non-text portions of this message have been removed]

625. Re: [ntms-hsmm] PCMCIA card choices for external antenna?

Yahoo group: DAWG-HSMM
Date: 2005-03-30 02:01:30 UTC
From: Wes Johnston
Topic: 617 Message: 625

You know I have read about putting USB 802.11 adapters on satellite dishes!!
One fellow in my town couldn't get into his house from laptop in shed, so he
got a USB 802.11 dongle and a USB a-a extension cable, mounted the USB critter
in a plastic box outside the shed, and it worked like a champ....

See http://www.kd4rdb.com/bbs/viewtopic.php?t=74 for neat info...
Wes

Quoting Keith Berry <berryko@...>:

>
> There are multiple 'clones' of the Orinoco Silver or Gord with external
> connectors on them. Included are 2Wire, Lucent, Proxim, Avaya. Some Senao
> cards also have external connectors.
>
> Depnding on your connection needs, yuo might be able to just use USB adapter
> to get you the extra gain needed.
>
> 73,
> Keith KE0FV
>
> ----- Original Message -----
> From: "KC2MMi" <kc2mmi@...>
> To: <ntms-hsmm@yahoogroups.com>
> Sent: Tuesday, March 29, 2005 5:18 PM
> Subject: [ntms-hsmm] PCMCIA card choices for external antenna?
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>
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>> I've tried to do my research & would appreciate a reality check. It seems
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> Yahoo! Groups Links
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626. Re: [ntms-hsmm] internal wireless card and external antenna

Yahoo group: DAWG-HSMM
Date: 2005-03-30 02:33:16 UTC
From: jbeadles@pobox.com
Topic: 619 Message: 626

On 29 Mar 2005 at 16:36, Mr rusty bryant wrote:

>
> All,
> I have a Toshiba M25X-S149 laptop with internal
> wireless card.
>
> Is there anyway to add an external antenna to an
> internal wireless card such as this?

Maybe! I didn't know it until recently, but my work laptop has, for the past 3 yrs, had a mini-PCI socket in the bottom with some teeny tiny antenna connectors already wired into the laptop. Had I known, I'd have taken advantage of them. I can't remember off the top of my head what those connectors are called.

Now, the question becomes, is there a convenient way of routing external antenna cabling out of your laptop?

627. Re: PCMCIA card choices for external antenna?

Yahoo group: DAWG-HSMM
Date: 2005-03-30 17:13:11 UTC
From: KC2MMi
Topic: 617 Message: 627

Keith, how does a USB adapter gain me anything over a pc card? Are they simply more powerful, or just more likely to use external antenna connectors? (And available a/b/g ??) I've got enough gain at home, but want to look into pushing it to the max for field operations as a data relay.

John-
Great URL. From their table it looks like the Orinoco combo and Engenius/Senao are the best choices, with the latter offering higher optional power levels> Or maybe I'm misreading their power spec, and the range of power levels it gives refers to different levels per each service type? Any disadvantages to them? I notice the Seattle folks don't list rx sensitivity on anything. And surprisingly, that 11.a-only cards offer much higher (double+) tx power compared to the combos. Very interesting site!

Dave-
Ah, so the 11.a with external antenna still exist from OLD cards...Makes me think I should consider a triple card for my own computing use plus a b/g only for ham use, sometimes getting everything in one device just isn't feasible. (Duh.<G>) I'd still like to use 11.a for my home use in the belief that most of the neighbors won't think or know about 11.a and that adds an extra layer of security. Cisco stuff often works as advertised.<G>

Thanks one and all, that gives me a lot to work with!

Have now found out the new b/g home gateway supplied by Verizon (a Westell 327W) is advertised as WPA and SPI capable--but doesn't have any option to use either. Probably looking for a triple mode home dsl gateway now too. (Bummer!) The guys at Verizon DSL....must be hard having a job where the cash register buttons don't have little pictures on them.

628. Re: [ntms-hsmm] Re: PCMCIA card choices for external antenna?

Yahoo group: DAWG-HSMM
Date: 2005-03-30 19:20:54 UTC
From: Keith Berry
Topic: 617 Message: 628

For instance, the Linksys USB adapter antenna has a
better gain that the built-in card antenna and can be
strategically placed to get the best signal. There
also is no loss in the USB cable and they can be ran
quite a distance from the PC. Thee is also the option
of the 'Poor Man's WiFi' method listed at
http://www.usbwifi.orcon.net.nz/. They have used the
small 'thumb drive' size adapters with woks, frying
ladles and such for parabolic reflectors. Pretty
ingenious of them to use it. Again, no loss in the
USB cable for temporary portable use.

73,
Keith

--- KC2MMi <kc2mmi@...> wrote:

Keith, how does a USB adapter gain me anything over a
pc card? Are they
simply more powerful, or just more likely to use
external antenna
connectors? (And available a/b/g ??) I've got enough
gain at home, but want
to look into pushing it to the max for field
operations as a data relay.

John-
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combo and
Engenius/Senao are the best choices, with the latter
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optional power levels> Or maybe I'm misreading their
power spec, and the
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think I should consider a triple card for my own computing use plus a b/g
only for ham use, sometimes getting everything in one device just isn't
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(Bummer!) The guys at Verizon DSL....must be hard having a job where the
cash register buttons don't have little pictures on them.

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629. a/b/g choices

Yahoo group: DAWG-HSMM
Date: 2005-03-30 22:58:01 UTC
From: KC2MMi
Topic: 629 Message: 629

I think I'm down to a choice of two cards. An Enterasys CSIBD-AA-128 a/b/g, or a Proxim Orinoco 802.11a/b/g Gold Combo card.

Both about the same price. If you guys had to flip a quarter and then spend it on only one card <G> would you favor the one or the other?

Second question, Verizon lied about the gateway router they were supplying. They say it supports WPA and SPI, but it doesn't. Ooops. So when I ship it back, I'm looking to replace it with a dsl gateway router with a/b/g as well. I've found a DLink AirPremier DI-784 for about $100 and an SMC EZ-Stream SMC2304WBR-AG for nearly twice that. The SMC has SPI, the DLink doesn't.

Flipping that same quarter...from what I've heard the DLink receivers aren't so hot, and SMC builds a better box. Is that right? Any better contenders?

The wallet's open, the order has to be placed. What say you all?

630. Re: [ntms-hsmm] Re: PCMCIA card choices for external antenna?

Yahoo group: DAWG-HSMM
Date: 2005-03-30 23:35:56 UTC
From: Chuck Mayfield
Topic: 617 Message: 630

And don't forget that you can sometimes add a simple corner reflector and
gain 6-10 dB of gain over about a 45 degree sector.

At 01:20 PM 3/30/2005, you wrote:

>For instance, the Linksys USB adapter antenna has a
>better gain that the built-in card antenna and can be
>strategically placed to get the best signal.

Regards,
Chuck Mayfield - AA5J

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.308 / Virus Database: 266.8.3 - Release Date: 3/25/2005

631. Re:PCMCIA card choices for external antenna?

Yahoo group: DAWG-HSMM
Date: 2005-03-31 16:01:26 UTC
From: KC2MMi
Topic: 617 Message: 631

Woks & ladles--great way to get the ladies involved.<G> This machine only has one USB port, so I'd rather use the card option than have something else loose flopping around. I think a friend has one of the Linksys USB's though, I'll try to borrow it and compare. Thanks again.

632. Re: WRT54G Project - Status Report?

Yahoo group: DAWG-HSMM
Date: 2005-04-08 20:53:46 UTC
From: J. Beadles
Topic: 613 Message: 632

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:

Sorry it's taken me so long to contine this thread. Just to refresh, we are attempting to get APRS software loaded on a Linksys WRT54g router. Right now, we have two persons ready to test hardware, and one non-linux user learning how to build linux software so that we have something to test.

It appears to me that what we need is to find a few more experienced Linux coders who can help us get the load built so that we can continue to test.

We're going to attempt another HSMM installation to support the Richardson "Wild Ride" bike rally on May 21. This will include several bridged WRT54g nodes. We have an opportunity to test a temporary APRS relay digi / internet gateway at a bridge location 13 miles from the internet feed. Any takers?

> --- In ntms-hsmm@yahoogroups.com, "R. B." <bus_dev1@y...> wrote:
> > Iv been using various Sveasoft firmware loads since December.
> >
> > I got a couple WRT54G's V2.0, I'll have to open to see about 10
> pin header for serial port. I can set one of them up for APRS
> testing.
> >
> > Randy_WAOD_
>
> Good! Yell back when you are set up.
>
>
> > "J. Beadles" <jbeadles@p...> wrote:
> >
> > Time for a status report... From y'all that is. First, who is
> > working on the WRT54G project? This, for those people joining,
is
> a
> > project to use a Linksys WRT54G 802.11G router to control a KISS
> > based TNC. This would be useful for cheap, configurable APRS
> > digipeaters and Telpac gateways for use with Winlink 2000.
>
> (snip)
>
> > At this time, I know of the following activity:
> >
> > 1. Pete Loveall AE5PL, keeper of the JavAPRSsvr software, has
> > compressed a JavAPRSsvr package small enough to possibly

> >
> > 2. Bob Kmak K5WO has been teaching himself how to build the
> Sveasoft
> > loads.
> >
> > 3. A. J. Farmer AJ3U I know has been experimenting with the
> Sveasoft
> > loads.
> >
> > 4. I've completed the serial port adapter and a TNC-X and am
> waiting
> > for a firmware load.
> >
> > Who else has been actively pursuing this project, and what
progress
> > have you had?

633. Plot netstumbler files

Yahoo group: DAWG-HSMM
Date: 2005-04-09 17:35:22 UTC
From: Wes Johnston
Topic: 613 Message: 633

http://www.gpsvisualizer.com/map?form=wifi

Dunno if this is of interest to any of us here, but if you upload your NS1 files, it'll plot them on map overlays ranging from tiger maps to photos.... neat neat neat.

Wes

634. Re: [ntms-hsmm] Re: WRT54G Project - Status Report?

Yahoo group: DAWG-HSMM
Date: 2005-04-09 17:36:32 UTC
From: Wes Johnston
Topic: 613 Message: 634

From APRS sig.... wooo hooo!!!
Wes

Hello Scott and others,

Scott Miller schreef:

> if at all possible. As far as I know, no one has integrated that code
> with
> anything yet.. it might be quite a challenge, but we'll see. I'll
> probably

Well, in Germany a group of HAM's have it running on a LinkSys WRT54GS V1.0 wireless modem and showed it at the 21st Packet Radio conference in Darmstadt, Germany, which was held on April 2nd, 2005.

This type of modem runs Linux and is available in Europe for about EUR 75.- and about $60.- in the US.

The group is working on instructions, I've seen a sneak preview and it will be simple!

They currently run the embedded version but I think it could just as well run the full version with the new KISS interface.

Besides DIGI_NED they also have TNN, Wampes and XNET running. I guess when the information is official a link will be posted to the APRSSIG.

Kind regards,

Henk.

J. Beadles wrote:

>--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
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>>--- In ntms-hsmm@yahoogroups.com, "R. B." <bus_dev1@y...> wrote:
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>>(snip)
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>>>At this time, I know of the following activity:

>>>
>>>1. Pete Loveall AE5PL, keeper of the JavAPRSsvr software, has
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>>>2. Bob Kmak K5WO has been teaching himself how to build the
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>>>3. A. J. Farmer AJ3U I know has been experimenting with the
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>Yahoo! Groups Links
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635. Re: [ntms-hsmm] Re: WRT54G Project - Status Report?

Yahoo group: DAWG-HSMM
Date: 2005-04-09 18:06:01 UTC
From: Bob and Debbie Kmak
Topic: 613 Message: 635

John,

Other stuff has kept me from working on aprsd for close to 2 weeks. Where I left it, I was able to compile the code with the mipsel cross-compiler but was getting link errors, with the linker squawking about no support for wide characters in ulibc, the runtime libraries that are used to build the Linksys and Sveasoft loads for the WRT54G.

I'm not sure why aprsd needs wide (16 bit) character support, and it could just be a matter of the compile and link options I'm using when doing the build. Anyway, I should be able to get back to it in the next few days, and hope to have some good news next week.

73,

Bob K5WO

----- Original Message -----
From: "J. Beadles" <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Friday, April 08, 2005 3:53 PM
Subject: [ntms-hsmm] Re: WRT54G Project - Status Report?

>
>
> --- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
> Sorry it's taken me so long to contine this thread. Just to refresh,
> we are attempting to get APRS software loaded on a Linksys WRT54g
> router. Right now, we have two persons ready to test hardware, and
> one non-linux user learning how to build linux software so that we
> have something to test.
>
> It appears to me that what we need is to find a few more experienced
> Linux coders who can help us get the load built so that we can
> continue to test.
>
> We're going to attempt another HSMM installation to support the
> Richardson "Wild Ride" bike rally on May 21. This will include
> several bridged WRT54g nodes. We have an opportunity to test a
> temporary APRS relay digi / internet gateway at a bridge location 13
> miles from the internet feed. Any takers?
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> > --- In ntms-hsmm@yahoogroups.com, "R. B." <bus_dev1@y...> wrote:
> > > Iv been using various Sveasoft firmware loads since December.

> > >
> > > I got a couple WRT54G's V2.0, I'll have to open to see about 10
> > pin header for serial port. I can set one of them up for APRS
> > testing.
> > >
> > > Randy_WAOD_
> >
> > Good! Yell back when you are set up.
> >
> >
> > > "J. Beadles" <jbeadles@p...> wrote:
> > >
> > > Time for a status report... From y'all that is. First, who is
> > > working on the WRT54G project? This, for those people joining,
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> > > project to use a Linksys WRT54G 802.11G router to control a KISS
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> > > 1. Pete Loveall AE5PL, keeper of the JavAPRSsvr software, has
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636. Re: WRT54G Project - Status Report?

Yahoo group: DAWG-HSMM
Date: 2005-04-11 16:06:18 UTC
From: J. Beadles
Topic: 613 Message: 636

Yet another case of co-incident development. We'll have to see what
they've got. I'll get in touch with Henk. Thanks Wes!

--- In ntms-hsmm@yahoogroups.com, Wes Johnston <yahoo@k...> wrote:
> From APRS sig.... wooo hooo!!!
> Wes
>
> Hello Scott and others,
>
> Scott Miller schreef:
>
> > if at all possible. As far as I know, no one has integrated that
code
> > with
> > anything yet.. it might be quite a challenge, but we'll see. I'll
> > probably
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>
> Well, in Germany a group of HAM's have it running on a LinkSys
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> V1.0 wireless modem and showed it at the 21st Packet Radio
conference in
> Darmstadt, Germany, which was held on April 2nd, 2005.
>
> This type of modem runs Linux and is available in Europe for about
EUR
> 75.- and about $60.- in the US.
>
> The group is working on instructions, I've seen a sneak preview and
it
> will be simple!
>
> They currently run the embedded version but I think it could just as
> well run the full version with the new KISS interface.
>
> Besides DIGI_NED they also have TNN, Wampes and XNET running. I
guess
> when the information is official a link will be posted to the
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> Kind regards,
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> Henk.
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> >--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...>
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> >It appears to me that what we need is to find a few more
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> >We're going to attempt another HSMM installation to support the
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> >>pin header for serial port. I can set one of them up for APRS
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> >>
> >>>
> >>>Randy_WAOD_
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> >>>
> >>Good! Yell back when you are set up.
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> >>>"J. Beadles" <jbeadles@p...> wrote:
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> >>>Time for a status report... From y'all that is. First, who is
> >>>working on the WRT54G project? This, for those people joining,
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637. Re: WRT54G Project - Status Report?

Yahoo group: DAWG-HSMM
Date: 2005-04-11 16:22:23 UTC
From: J. Beadles
Topic: 613 Message: 637

Howdy Bob,

Good progress being made. I certainly understand about having to cover other stuff (especially non-ham stuff). Personally, I've had to take a few "mental health" breaks in the past few weeks.

I'd say keep going, this news about the german group's success notwithstanding. I'm thinking that there may still be other things we'll want to add, and once a linux version of telpac is available we'll want to add that too.

--- In ntms-hsmm@yahoogroups.com, "Bob and Debbie Kmak" <bdkmak@c...> wrote:
> John,
>
> Other stuff has kept me from working on aprsd for close to 2 weeks. Where I
> left it, I was able to compile the code with the mipsel cross-compiler but
> was getting link errors, with the linker squawking about no support for wide
> characters in ulibc, the runtime libraries that are used to build the
> Linksys and Sveasoft loads for the WRT54G.
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> I'm not sure why aprsd needs wide (16 bit) character support, and it could
> just be a matter of the compile and link options I'm using when doing the
> build. Anyway, I should be able to get back to it in the next few days, and
> hope to have some good news next week.
>
> 73,
>
> Bob K5WO
>
>
> ----- Original Message -----
> From: "J. Beadles" <jbeadles@p...>
> To: <ntms-hsmm@yahoogroups.com>
> Sent: Friday, April 08, 2005 3:53 PM
> Subject: [ntms-hsmm] Re: WRT54G Project - Status Report?
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> >

> >
> > --- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...>
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> > Sorry it's taken me so long to contine this thread. Just to
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> > > > Iv been using various Sveasoft firmware loads since December.
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> > > pin header for serial port. I can set one of them up for APRS
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> > > > Randy_WAOD_
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> > > Good! Yell back when you are set up.
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> > > > "J. Beadles" <jbeadles@p...> wrote:
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> > > > Time for a status report... From y'all that is. First, who is
> > > > working on the WRT54G project? This, for those people
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638. Re: [ntms-hsmm] Re: WRT54G Project - Status Report?

Yahoo group: DAWG-HSMM
Date: 2005-04-11 16:58:17 UTC
From: Wes Johnston
Topic: 613 Message: 638

'Tis no coincidence!!! I asked Henk to help us a couple of months ago off sig.... Offered to send him a router, which he declined. What he did do was to strip down digi_ned and remove the ax.25 stack leaving only the KISS interface stuff....

Wes

J. Beadles wrote:

>Yet another case of co-incident development. We'll have to see what
>they've got. I'll get in touch with Henk. Thanks Wes!
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>--- In ntms-hsmm@yahoogroups.com, Wes Johnston <yahoo@k...> wrote:
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>>From APRS sig.... wooo hooo!!!
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>>Hello Scott and others,
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>>Scott Miller schreef:
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>>>if at all possible. As far as I know, no one has integrated that
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>>This type of modem runs Linux and is available in Europe for about
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>>They currently run the embedded version but I think it could just as
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>>Besides DIGI_NED they also have TNN, Wampes and XNET running. I
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[Non-text portions of this message have been removed]

639. 05 Wild Ride Network

Yahoo group: DAWG-HSMM
Date: 2005-04-11 18:09:21 UTC
From: J. Beadles
Topic: 639 Message: 639

Here's some first comments on HSMM concepts for the 05 Wild Ride network. This event is a 65 mi charity bike rally run in conjunction with the city's Wildflower Festival. The goal of the HSMM exercise is to get experience with operational HSMM bridge deployments. We'll be deploying web cams at the stops along the route, feeding a central web site.

1. The rest stops are mostly the same as next year, in a line to the ENE from the 16 story Nortel tower at Central Expressway and Campbell road in Richardson, TX.

2. It looks as though we will get another internet feed from the City of Richardson. This feed will come off the Eiseman Auditorium. Eiseman is approx. 1/2 mi north of the Nortel tower. The start/stop is on the parking lot of the MCI engineering headquarters bldg, 1/2 mi east of the Nortel tower. The direct path is blocked by Nortel buildings. The plan is to bridge the internet connection from the Eiseman center to the Start / Stop area via an access point on the Nortel tower.

What I intend to do is to use a WRT54g on the Nortel tower with gain omni antennas (Gerry, hold on a minute before you say anything), with the antennas tilted so that the plane of radiation is at about a 45 degree downtilt crossing both the Eiseman center and the Start/Stop. We can adjust the power so that we don't over-radiate the outside area. This also means that the residential areas to the west of the bldg will be sheilded by the Nortel bldg and that the antenna pattern will be tilted up into space by 45 degrees. This should reduce any unintentional interference to neighboring systems. Comments on this plan are welcome (Ok Gerry, now you can comment).

Last year this bridged connection was unsuccessful. We were using 3 WAP11s on a single ethernet switch, which did not want to work for some reason we have never been able to establish. This year we'll use two WRT54Gs, which have already been tested to work in this configuration.

3. Rest stop 1 is in the same location as last year, which is a new residential development area in Wiley, TX. Last year Doug KD5OUG convinced the developer to let him put an access point on their office network, which covered the area. Doug is looking into this year's system, but it should be similar.

4. Rest stop 2 is on the east bank of the Lake Lavon dam road, same as last year. The plan is to again attempt a 13 mile bridged shot from the Nortel tower to the Army Corps of Engineers tower (150 ft max

AGL), then hop the 2 miles to the rest stop. This rest stop is in a rural area, isolated from other services, so this is really the only way to the location. We'll be using two WRT54Gs in WDS bridge mode, one back to the Nortel tower, the other toward the rest stop. We may also have a web cam pointing down the dam road.

Last year this hop was unsuccessful. We were using WAP11 access points and 40 dB of total antenna gain for the bridge and could not establish a connection from the ACoE tower to the Nortel bldg. This year we'll use WRTs and 48 dB of total antenna gain (two 24 dB grids). We'll also start much earlier, giving us a much better chance of completing the path in time.

If we are able to get a WRT/APRS box install completed in time, I'd like to put a relay digi, just to test the concept.

3. Rest stop 3, I think is in the same place at the Community High School in rural Josephine, TX. This is 8 miles NE from the Army Corps of Engineers tower at Lake Lavon. Last year we attempted to shoot a bridge shot from the tower to the site. This year, we are hoping to use the DirectWay satellite installation one local ham has on his RV.

4. Rest stop 4, If I have this right, will be located near Renner Road and Murphy Road in Richardson. This is on the order of 6 miles from the Nortel tower, but residential development will not permit a direct connection. I don't know what we will do with this one. We are near a Richardson Fire Station, which are now supplying a limited duration 802.11b connection, but it is on the other side of the residential development also.

640. Re: WRT54G Project - Status Report?

Yahoo group: DAWG-HSMM
Date: 2005-04-12 03:15:47 UTC
From: J. Beadles
Topic: 613 Message: 640

Good deal! Thanks, Wes.

--- In ntms-hsmm@yahoogroups.com, Wes Johnston <yahoo@k...> wrote:
> 'Tis no coincidence!!! I asked Henk to help us a couple of months
ago
> off sig.... Offered to send him a router, which he declined. What
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> >>>Sorry it's taken me so long to contine this thread. Just to
> >>>
> >>>
> >refresh,
> >
> >
> >>>we are attempting to get APRS software loaded on a Linksys
WRT54g
> >>>router. Right now, we have two persons ready to test hardware,
> >>>
> >>>
> >and
> >
> >
> >>>one non-linux user learning how to build linux software so that
we
> >>>have something to test.
> >>>
> >>>It appears to me that what we need is to find a few more
> >>>
> >>>
> >experienced
> >
> >
> >>>Linux coders who can help us get the load built so that we can
> >>>continue to test.
> >>>
> >>>We're going to attempt another HSMM installation to support the
> >>>Richardson "Wild Ride" bike rally on May 21. This will include
> >>>several bridged WRT54g nodes. We have an opportunity to test a
> >>>temporary APRS relay digi / internet gateway at a bridge
location
> >>>
> >>>
> >13
> >

> >
> >>>miles from the internet feed. Any takers?
> >>>
> >>>
> >>>
> >>>
> >>>
> >>>
> >>>>--- In ntms-hsmm@yahoogroups.com, "R. B." <bus_dev1@y...> wrote:
> >>>>
> >>>>
> >>>>
> >>>>
> >>>>>Iv been using various Sveasoft firmware loads since December.
> >>>>>
> >>>>>I got a couple WRT54G's V2.0, I'll have to open to see about
10
> >>>>>
> >>>>>
> >>>>>
> >>>>>
> >>>>>pin header for serial port. I can set one of them up for APRS
> >>>>>testing.
> >>>>>
> >>>>>
> >>>>>
> >>>>>
> >>>>>Randy_WAOD_
> >>>>>
> >>>>>
> >>>>>
> >>>>>
> >>>>>Good! Yell back when you are set up.
> >>>>>
> >>>>>
> >>>>>
> >>>>>
> >>>>>
> >>>>>
> >>>>>"J. Beadles" <jbeadles@p...> wrote:
> >>>>>
> >>>>>Time for a status report... From y'all that is. First, who is
> >>>>>working on the WRT54G project? This, for those people
joining,
> >>>>>
> >>>>>
> >>>>>
> >>>>>
> >>>is
> >>>

> >>>
> >>>
> >>>
> >>>>a
> >>>>
> >>>>
> >>>>
> >>>>
> >>>>>project to use a Linksys WRT54G 802.11G router to control a
KISS
> >>>>>based TNC. This would be useful for cheap, configurable APRS
> >>>>>digipeaters and Telpac gateways for use with Winlink 2000.
> >>>>>
> >>>>>
> >>>>>
> >>>>>
> >>>>(snip)
> >>>>
> >>>>
> >>>>
> >>>>
> >>>>
> >>>>>At this time, I know of the following activity:
> >>>>>
> >>>>>1. Pete Loveall AE5PL, keeper of the JavAPRSsvr software, has
> >>>>>compressed a JavAPRSsvr package small enough to possibly
> >>>>>
> >>>>>2. Bob Kmak K5WO has been teaching himself how to build the
> >>>>>
> >>>>>
> >>>>>
> >>>>>
> >>>>Sveasoft
> >>>>
> >>>>
> >>>>
> >>>>
> >>>>>loads.
> >>>>>
> >>>>>3. A. J. Farmer AJ3U I know has been experimenting with the
> >>>>>
> >>>>>
> >>>>>
> >>>>>
> >>>>Sveasoft
> >>>>
> >>>>
> >>>>
> >>>>
> >>>>>loads.

> >>>>>
> >>>>>4. I've completed the serial port adapter and a TNC-X and am
> >>>>>
> >>>>>
> >>>>>
> >>>>>
> >>>>waiting
> >>>>
> >>>>
> >>>>
> >>>>
> >>>>>for a firmware load.
> >>>>>
> >>>>>Who else has been actively pursuing this project, and what
> >>>>>
> >>>>>
> >>>>>
> >>>>>
> >>>progress
> >>>
> >>>
> >>>
> >>>
> >>>>>have you had?
> >>>>>
> >>>>>
> >>>>>
> >>>>>
> >>>
> >>>
> >>>
> >>>
> >>>Yahoo! Groups Links
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> >>>
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> >Yahoo! Groups Links
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>
>
> [Non-text portions of this message have been removed]

641. Re: 05 Wild Ride Network

Yahoo group: DAWG-HSMM
Date: 2005-04-12 20:08:02 UTC
From: J. Beadles
Topic: 639 Message: 641

FYI, yesterday the NT5NT APs were installed on the roof of the Nortel bldg. Two WRT54G APs were placed, both on the roof at about 260 ft agl. The roof has a 20ft tall aluminum surround wall enclosing the elevator and AC units.

NT5NT-3AP, with a pair of 5dB omni antennas was placed on an I-beam behind the shield wall, with the antennas poking down through an opening in the shield wall. This position has a clear view of the MCI bldg (event start / stop) to the east and the Eiseman Auditorium (internet feed) to the north. The location also screens the system from users outside that arc and within the 1st 100 yards closest to the bldg.

TX power is expected to stay in the 28mw range to minimize interference to the 802.11b users on the floor below. Testing with a bare Orinoco card indicated signal in the -85 to -90 range in front of the Eiseman center and at the corner of Greenville and Glenville. No signal was seen outside of these areas. Signal testing using the WRTs wl scan function showed no visible signals outside of the Nortel access points on the floor below.

NT5NT-4AP, with a 24dB grid antenna was installed facing the Army Corps of Engineers tower at Lake Lavon. This antenna and AP is mounted on top of the shield wall in the north corner of the bldg, facing NE. The antenna is definitley visible from the ground in the morning sun!!! The antenna is set for horizontal polarization.

TX power is expected to stay at 28mw to minimize interference to 802.11b users on the floor below. Testing with a bare Orinoco card indicated only a few extremely low power measurements at the ground within the 1st half mile (no other testing was done). Signal testing using the WRTs wl scan function showed no visible signals, period.

Both APs are connected via Power over Ethernet connections to a junction box (thanks to W5ADC) mounted on the shield wall on the roof. Both are connected together through a Dlink 5 port ethernet switch. All units are powered with 12v from a 48v to 12v DC-DC converter in the junction box. 48v is supplied from a power supply in a 16th floor electrical room. There is no data connection off the roof. A wireless connection was made to the NT5NT-3AP, with wired connectivity then demonstrated to the NT5NT-4AP admin interface.

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
> Here's some first comments on HSMM concepts for the 05 Wild Ride
> network. This event is a 65 mi charity bike rally run in

conjunction
> with the city's Wildflower Festival. The goal of the HSMM exercise
is
> to get experience with operational HSMM bridge deployments. We'll
be
> deploying web cams at the stops along the route, feeding a central
web
> site.
>
>
> 2. It looks as though we will get another internet feed from the
City
> of Richardson. This feed will come off the Eiseman Auditorium.
> Eiseman is approx. 1/2 mi north of the Nortel tower. The
start/stop
> is on the parking lot of the MCI engineering headquarters bldg, 1/2
mi
> east of the Nortel tower. The direct path is blocked by Nortel
> buildings. The plan is to bridge the internet connection from the
> Eiseman center to the Start / Stop area via an access point on the
> Nortel tower.
>
> What I intend to do is to use a WRT54g on the Nortel tower with
gain
> omni antennas (Gerry, hold on a minute before you say anything),
with
> the antennas tilted so that the plane of radiation is at about a 45
> degree downtilt crossing both the Eiseman center and the
Start/Stop.
> We can adjust the power so that we don't over-radiate the outside
> area. This also means that the residential areas to the west of
the
> bldg will be sheilded by the Nortel bldg and that the antenna
pattern
> will be tilted up into space by 45 degrees. This should reduce any
> unintentional interference to neighboring systems. Comments on
this
> plan are welcome (Ok Gerry, now you can comment).
>
> Last year this bridged connection was unsuccessful. We were using
3
> WAP11s on a single ethernet switch, which did not want to work for
> some reason we have never been able to establish. This year we'll
use
> two WRT54Gs, which have already been tested to work in this
> configuration.
>
>
> 4. Rest stop 2 is on the east bank of the Lake Lavon dam road,
same

> as last year. The plan is to again attempt a 13 mile bridged shot
> from the Nortel tower to the Army Corps of Engineers tower (150 ft
max
> AGL), then hop the 2 miles to the rest stop. This rest stop is in
a
> rural area, isolated from other services, so this is really the
only
> way to the location. We'll be using two WRT54Gs in WDS bridge
mode,
> one back to the Nortel tower, the other toward the rest stop. We
may
> also have a web cam pointing down the dam road.
>
> Last year this hop was unsuccessful. We were using WAP11 access
> points and 40 dB of total antenna gain for the bridge and could not
> establish a connection from the ACoE tower to the Nortel bldg.
This
> year we'll use WRTs and 48 dB of total antenna gain (two 24 dB
> grids). We'll also start much earlier, giving us a much better
chance
> of completing the path in time.
>
> If we are able to get a WRT/APRS box install completed in time, I'd
> like to put a relay digi, just to test the concept.

642. Bad News for APRSD

Yahoo group: DAWG-HSMM
Date: 2005-04-20 02:26:42 UTC
From: Bob and Debbie Kmak
Topic: 642 Message: 642

Guys,

Well I managed to build the aprsd program for the Linksys WRT54G, but can't get it to run. The problem is that the C++ runtime library is not included with the Linksys/Sveasoft load. Now that I know it, I'm wondering why I didn't think of this before. But the fact is that both Linux and all the Linksys router software are written in C, and only the C runtime stuff is included in the WRT54G load. The C++ library is large -- 4.5 Mb -- so I can see why they left it out.

I copied the library (libstdc++.so) to the WRT54G ramdisk and set the LD_LIBRARY_PATH to the local directory -- to make the Linux loader look in the right place -- still no joy.

So I'm thinking this aprsd project of mine is pretty much a lost cause. I'll fiddle around with it a bit more but don't feel optimistic right now. I guess I'll find something else to port.

73,

Bob K5WO

643. Re: [ntms-hsmm] Bad News for APRSD

Yahoo group: DAWG-HSMM
Date: 2005-04-20 03:05:23 UTC
From: Rusty Haddock
Topic: 642 Message: 643

Bob and Debbie Kmak wrote:
>
>Guys,
>
>Well I managed to build the aprsd program for the Linksys WRT54G, but can't
>get it to run. The problem is that the C++ runtime library is not included
>with the Linksys/Sveasoft load. Now that I know it, I'm wondering why I
>...
>I copied the library (libstdc++.so) to the WRT54G ramdisk and set the
>LD_LIBRARY_PATH to the local directory -- to make the Linux loader look in
>the right place -- still no joy.

Bob,
Have you tried linking 'aprsd' statically so that you're not dependent
upon a huge .so file? It might be that only a small portion of that .so
is needed to make the critter run. Now, this will make the executable
larger but depending on how much of the standard C++ library you needed
will determine how much bigger. Also, you won't have to fiddle with
the LD_LIBRARY_PATH environment variable. It's worth a try 'stead of
immediately declaring a lost cause, no?

If you're using 'gcc' to compile and link 'aprsd' then check out the
-static option. If the makefile explicitly uses the 'ld' command to do
the linking then check out the -Bstatic argument.

Rotsa ruck!

-Rusty-
--
_____ Rusty Haddock = KD4WLZ = rusty@...
|\/ o \ o **Out yonder in the Van Alstyne (TX) Metropolitan Area**
| (-< O o Microsoft is to software what
|/__V__/ McDonalds is to gourmet cooking

644. Re: [ntms-hsmm] Bad News for APRSD

Yahoo group: DAWG-HSMM
Date: 2005-04-20 13:17:34 UTC
From: Bob and Debbie Kmak
Topic: 642 Message: 644

Rusty,

Thanks for the tip! I'll try it and let you know how it goes.

73,

Bob

----- Original Message -----
From: "Rusty Haddock" <rusty@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Tuesday, April 19, 2005 10:05 PM
Subject: Re: [ntms-hsmm] Bad News for APRSD

>
> Bob and Debbie Kmak wrote:
> >
> >Guys,
> >
> >Well I managed to build the aprsd program for the Linksys WRT54G, but
can't
> >get it to run. The problem is that the C++ runtime library is not
included
> >with the Linksys/Sveasoft load. Now that I know it, I'm wondering why
I
> >...
> >I copied the library (libstdc++.so) to the WRT54G ramdisk and set
the
> >LD_LIBRARY_PATH to the local directory -- to make the Linux loader
look in
> >the right place -- still no joy.
>
> Bob,
> Have you tried linking 'aprsd' statically so that you're not dependent
> upon a huge .so file? It might be that only a small portion of that .so
> is needed to make the critter run. Now, this will make the executable
> larger but depending on how much of the standard C++ library you needed
> will determine how much bigger. Also, you won't have to fiddle with
> the LD_LIBRARY_PATH environment variable. It's worth a try 'stead of
> immediately declaring a lost cause, no?
>
> If you're using 'gcc' to compile and link 'aprsd' then check out the
> -static option. If the makefile explicitly uses the 'ld' command to do
> the linking then check out the -Bstatic argument.
>
> Rotsa ruck!

```
>
> -Rusty-
> --
> _____ Rusty Haddock = KD4WLZ = rusty@...
> |\/ o \ o **Out yonder in the Van Alstyne (TX) Metropolitan Area**
> | ( -< O o Microsoft is to software what
> |/\__V__/ McDonalds is to gourmet cooking
>
>
>
> Yahoo! Groups Links
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645. Upcoming web seminar for 802.11 and WiSPs

Yahoo group: DAWG-HSMM
Date: 2005-04-21 14:39:37 UTC
From: Joe Jurecka
Topic: 645 Message: 645

Hi,

There will be a web seminar entitled Unlicensed Wireless Broadband for Metro-Zone 802.11 & WISPs on Wednesday, April 27, 2005 which will discuss business activity focused on the unlicensed spectrum which will inevitably have an impact on our amateur bands. While I do not recommend making a scene and trying to de-rail the direction of this event, it may provide some useful ammunition for the future as well as provide some insight on the thought processes of those who will raise our noise floor substantially.

http://www.unstrung.com/webinar.asp?doc_id=27368

It looks to be open to anyone...thus why I'm passing it to the group.
Joe

646. 04 Wild Ride HSMM update

Yahoo group: DAWG-HSMM
Date: 2005-04-21 15:48:44 UTC
From: J. Beadles
Topic: 646 Message: 646

NT5NT and the START / STOP

This is the highest priority of the event. If we don't have solid internet access to the Start / Stop, many of our desired goals won't be met.

The two access points NT5NT-3AP and NT5NT-4AP were installed on roof of the 16th floor last week, with testing performed last week (see previous msg). Neither performed as expected during testing last Sunday. Plan is move the NT5NT-3AP on top of the wall surrounding the elevator eqpt, using an 8db panel antenna. Will repoint the 24db grid on the NT5NT-4AP down to Lookout Park to facilitate ground testing of the entire radio system.

I'm expected to meet Kevin KD5YVL tonight to hand over the bridge radio which will be mounted on the Eisemann auditorium where the internet feed will come from. This is a WRT in one of the 19db Rootenna fixtures. Radical overkill for this purpose, but given the history of the system I don't mind that.

REST STOP 3

Doug KD5OUG and I went out to Nevada (TX) to look at Dave K5EEN's location with respect to the rest stop 3 location for the Wild Ride bike ride.

Last year we attempted an 8 mile bridged shot from the Lake Lavon Army Corps of Engineers tower to the community middle school near the rest stop. This path was marginally successful, likely due to the WAP11s we were using.

Our examination showed that K5EEN's house is about .75 miles from the middle school and has line of sight to the same playground we used last year. Dave's house and storage building are fed via a Directway satellite connection, and he currently runs APRS and Telpac feeds across it.

Dave also stores the McKinney ARCs' 35 ft towers which are used for field day. Dave will check with the clubs' board to see if we have permission to use one for this purpose.

REST STOP 4

This is an addition this year, located out near Breckenridge(?) Park in Richardson somewhere out near Renner & Murphy roads. KD5OUG reports that he has located some RACES members who live there and is negotiating with them to provide internet feeds for that shot.

REST STOP 2

This is the hardest of the rest stops to reach. Because of our goals, we're going to push to make the other paths work before putting too much effort into this.

Initial plans are to again attempt a 13 mile bridged shot from the Nortel tower to the Army Corps of Engineers 150 ft self support tower at Lake Lavon, with a separate 2m bridge down into the site on the other side of the dam. Alternate plan is to attempt a bridge from a local WISP down into the site from a couple of possible directions.

The NT5NT-4AP station is in place to do this, however, ground testing from the Lavon area, which was successful last year, failed this time around. There is likely an antenna pointing issue on the NT5NT-4AP side, which is now using the 24db grid. Poor connections were made successfully last year with a 16db panel at that location. Goal is to use a higher gain grid rather higher TX power with a panel to minimize interference into the 802.11b system on the executive floor below.

COMMENTS

Noted this last year, but for this rapid mobilization stuff these 24 db grids just don't have an antenna mount that allows for very reliable adjustment. The mount on mine is so tight that I have to whack it to make it move, which is obviously not good for fine adjustment.

Also, the antenna on top of the roof is on a pole that is in an bad position to get behind for a sight line behind the antenna. I need an optical aid that I can put on the feed point. Thinking about rigging up a cheap CCD camera behind a rifle scope or something like that.

Thinking about flexible mounting systems for antennas. I've in the past been using the ball mount system from RAM products (see www.gpscity.com). I've had a 1in ball on one of those automotive suction cups for a while, now I have one on a mag mount antenna. Going to use that to clamp that 8db antenna to the steel here on the Nortel bldg. Definitely something to look into if you are looking at keeping HSMM stuff for emergency deployment.

647. Change of Plans - Rest Stop #4

Yahoo group: DAWG-HSMM
Date: 2005-04-21 18:56:38 UTC
From: Douglas Kilgore
Topic: 647 Message: 647

It's election time. Politics rules. The location of Rest Stop #4 has been changed. No longer will it be at Miller Elementary where we had received approval and were within 802.11b line of sight to a hams house 50 yds away.

Instead the new location for Rest Stop #4 will be on the old Brand Road cutoff which parallels the new Brand road on the east side of Breckinridge park. There is a clear, unimpeded line of sight to the Nortel building. We should be able to make a link directly to Nortel.

Old Brand Road cutoff - excellent view of Nortel for testing
N 32:59.58
W 96:37.34

An alternate plan will be to canvass the neighborhood directly to east of Brand road to see if a homeowner will allow us to connect our wireless link directly to their high speed internet. I will pursue this alternative next week.

Doug Kilgore Kd5OUG
Wild Ride Communications Coordinator

648. Re: Change of Plans - Rest Stop #4

Yahoo group: DAWG-HSMM
Date: 2005-04-21 21:50:33 UTC
From: J. Beadles
Topic: 647 Message: 648

Doug, can you see the fire station from there? If so, we might be able to link off the city system.

--- In ntms-hsmm@yahoogroups.com, Douglas Kilgore <douglas.kilgore@c...> wrote:
> It's election time. Politics rules. The location of Rest Stop #4 has
> been changed. No longer will it be at Miller Elementary where we had
> received approval and were within 802.11b line of sight to a hams house
> 50 yds away.
>
> Instead the new location for Rest Stop #4 will be on the old Brand Road
> cutoff which parallels the new Brand road on the east side of
> Breckinridge park. There is a clear, unimpeded line of sight to the
> Nortel building. We should be able to make a link directly to Nortel.
>
> Old Brand Road cutoff - excellent view of Nortel for testing
> N 32:59.58
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>
> An alternate plan will be to canvass the neighborhood directly to east
> of Brand road to see if a homeowner will allow us to connect our
> wireless link directly to their high speed internet. I will pursue
> this alternative next week.
>
> Doug Kilgore Kd5OUG
> Wild Ride Communications Coordinator

649. Re: 04 Wild Ride HSMM update

Yahoo group: DAWG-HSMM
Date: 2005-04-21 21:57:36 UTC
From: J. Beadles
Topic: 646 Message: 649

Had an opportunity to visit the NT5NT APs again, found that I did not have them all configured properly after all.

1. NT5NT-3AP had the xmit power down to 15mw (after testing)
2. NT5NT-4AP had the antenna on the wrong port. Darn it.

Boys and girls, let this be an object lesson - before a deployment, go out with a checklist, and be sure to examine the signal strength with netstumbler before you leave the site. I had checked connectivity to NT5NT-4AP and was able to see it, but did not look at the absolute signal strength.

In addition, I locked both APs to the 1-2mbps mode, and set the NT5NT-4AP (the 13 mile bridge) with the following parameters:

Set Frameburst to on
RTS Threshold set to 1024
Fragmentation set to 1023

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
> NT5NT and the START / STOP
>
> This is the highest priority of the event. If we don't have solid
> internet access to the Start / Stop, many of our desired goals
won't
> be met.
>
> The two access points NT5NT-3AP and NT5NT-4AP were installed on
roof
> of the 16th floor last week, with testing performed last week (see
> previous msg). Neither performed as expected during testing last
> Sunday. Plan is move the NT5NT-3AP on top of the wall surrounding
> the elevator eqpt, using an 8db panel antenna. Will repoint the
24db
> grid on the NT5NT-4AP down to Lookout Park to facilitate ground
> testing of the entire radio system.
>
> I'm expected to meet Kevin KD5YVL tonight to hand over the bridge
> radio which will be mounted on the Eisemann auditorium where the
> internet feed will come from. This is a WRT in one of the 19db
> Rootenna fixtures. Radical overkill for this purpose, but given
the
> history of the system I don't mind that.
>
> REST STOP 3

>
> Doug KD5OUG and I went out to Nevada (TX) to look at Dave K5EEN's
> location with respect to the rest stop 3 location for the Wild Ride
> bike ride.
>
> Last year we attempted an 8 mile bridged shot from the Lake Lavon
> Army Corps of Engineers tower to the community middle school near
the
> rest stop. This path was marginally successful, likely due to the
> WAP11s we were using.
>
> Our examination showed that K5EEN's house is about .75 miles from
the
> middle school and has line of sight to the same playground we used
> last year. Dave's house and storage building are fed via a
Directway
> satellite connection, and he currently runs APRS and Telpac feeds
> across it.
>
> Dave also stores the McKinney ARCs' 35 ft towers which are used for
> field day. Dave will check with the clubs' board to see if we have
> permission to use one for this purpose.
>
> REST STOP 4
>
> This is an addition this year, located out near Breckenridge(?)
Park
> in Richardson somewhere out near Renner & Murphy roads. KD5OUG
> reports that he has located some RACES members who live there and
is
> negotiating with them to provide internet feeds for that shot.
>
> REST STOP 2
>
> This is the hardest of the rest stops to reach. Because of our
> goals, we're going to push to make the other paths work before
> putting too much effort into this.
>
> Initial plans are to again attempt a 13 mile bridged shot from the
> Nortel tower to the Army Corps of Engineers 150 ft self support
tower
> at Lake Lavon, with a separate 2m bridge down into the site on the
> other side of the dam. Alternate plan is to attempt a bridge from a
> local WISP down into the site from a couple of possible directions.
>
> The NT5NT-4AP station is in place to do this, however, ground
testing
> from the Lavon area, which was successful last year, failed this
time
> around. There is likely an antenna pointing issue on the NT5NT-4AP

> side, which is now using the 24db grid. Poor connections were made
> successfully last year with a 16db panel at that location. Goal is
> to use a higher gain grid rather higher TX power with a panel to
> minimize interference into the 802.11b system on the executive
floor
> below.
>
> COMMENTS
>
> Noted this last year, but for this rapid mobilization stuff these
24
> db grids just don't have an antenna mount that allows for very
> reliable adjustment. The mount on mine is so tight that I have to
> whack it to make it move, which is obviously not good for fine
> adjustment.
>
> Also, the antenna on top of the roof is on a pole that is in an bad
> position to get behind for a sight line behind the antenna. I need
> an optical aid that I can put on the feed point. Thinking about
> rigging up a cheap CCD camera behind a rifle scope or something
like
> that.
>
> Thinking about flexible mounting systems for antennas. I've in the
> past been using the ball mount system from RAM products (see
> www.gpscity.com). I've had a 1in ball on one of those automotive
> suction cups for a while, now I have one on a mag mount antenna.
> Going to use that to clamp that 8db antenna to the steel here on
the
> Nortel bldg. Definitely something to look into if you are looking
at
> keeping HSMM stuff for emergency deployment.

650. Re: 04 Wild Ride HSMM update

Yahoo group: DAWG-HSMM
Date: 2005-04-22 03:51:44 UTC
From: J. Beadles
Topic: 646 Message: 650

Success! Some success, anyway, testing against NT5NT-4AP. 28mw and 24dB grid on the NT5NT end, at 14dB panel antenna on the test side. Netstumbler used to see signal on the test end, but a bridged WDS connection using WRTs was tested also.

1. .95 miles - At lookout park, had a solid WDS bridge connection between, with only about 10dB SNR on the path. The test station was significantly below the main beam, and somewhat off to one side.

2. 5.22 miles - On Brand Road, just south of Renner. The place where I could park was definitely south of the main beam. Getting signal in the -90s. Bridge was intermittent, but was able to access the admin page on the NT5NT access point. While the panel antenna has a pretty good beam, I was right on the edge of the system threshold, so that turning the antenna even a little bit caused the link to fail.

The actual rest stop that Doug described is almost in the direct path of the main beam, so the situation should be better. I'd have tried it, but had no place to park.

3. 7.62 miles - Parked on westbound 544 in Wiley, directly in the main beam. Definitely not line of sight, the Nortel tower was obscured by dense trees. The WRT was not able to get any signal, but a client connection with the Orinoco card was able to establish a fairly reliable connection and I was able to ping the remote end reliably.

Rather odd that last. I'd read that the WRT had pretty good receive sensitivity. Well, we'll go out and try with a grid.

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
> Had an opportunity to visit the NT5NT APs again, found that I did
not
> have them all configured properly after all.
>
> 1. NT5NT-3AP had the xmit power down to 15mw (after testing)
> 2. NT5NT-4AP had the antenna on the wrong port. Darn it.
>
> Boys and girls, let this be an object lesson - before a deployment,
> go out with a checklist, and be sure to examine the signal strength
> with netstumbler before you leave the site. I had checked
> connectivity to NT5NT-4AP and was able to see it, but did not look
at
> the absolute signal strength.

>
> In addition, I locked both APs to the 1-2mbps mode, and set the
NT5NT-
> 4AP (the 13 mile bridge) with the following parameters:
>
> Set Frameburst to on
> RTS Threshold set to 1024
> Fragmentation set to 1023
>
> --- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...>
wrote:
> >
> > NT5NT and the START / STOP
> >
> > This is the highest priority of the event. If we don't have
solid
> > internet access to the Start / Stop, many of our desired goals
> won't
> > be met.
> >
> > The two access points NT5NT-3AP and NT5NT-4AP were installed on
> roof
> > of the 16th floor last week, with testing performed last week
(see
> > previous msg). Neither performed as expected during testing last
> > Sunday. Plan is move the NT5NT-3AP on top of the wall
surrounding
> > the elevator eqpt, using an 8db panel antenna. Will repoint the
> 24db
> > grid on the NT5NT-4AP down to Lookout Park to facilitate ground
> > testing of the entire radio system.
> >
> > I'm expected to meet Kevin KD5YVL tonight to hand over the bridge
> > radio which will be mounted on the Eisemann auditorium where the
> > internet feed will come from. This is a WRT in one of the 19db
> > Rootenna fixtures. Radical overkill for this purpose, but given
> the
> > history of the system I don't mind that.
> >
> > REST STOP 3
> >
> > Doug KD5OUG and I went out to Nevada (TX) to look at Dave K5EEN's
> > location with respect to the rest stop 3 location for the Wild
Ride
> > bike ride.
> >
> > Last year we attempted an 8 mile bridged shot from the Lake Lavon
> > Army Corps of Engineers tower to the community middle school near
> the
> > rest stop. This path was marginally successful, likely due to

the
> > WAP11s we were using.
> >
> > Our examination showed that K5EEN's house is about .75 miles from
> the
> > middle school and has line of sight to the same playground we
used
> > last year. Dave's house and storage building are fed via a
> Directway
> > satellite connection, and he currently runs APRS and Telpac feeds
> > across it.
> >
> > Dave also stores the McKinney ARCs' 35 ft towers which are used
for
> > field day. Dave will check with the clubs' board to see if we
have
> > permission to use one for this purpose.
> >
> > REST STOP 4
> >
> > This is an addition this year, located out near Breckenridge(?)
> Park
> > in Richardson somewhere out near Renner & Murphy roads. KD5OUG
> > reports that he has located some RACES members who live there and
> is
> > negotiating with them to provide internet feeds for that shot.
> >
> > REST STOP 2
> >
> > This is the hardest of the rest stops to reach. Because of our
> > goals, we're going to push to make the other paths work before
> > putting too much effort into this.
> >
> > Initial plans are to again attempt a 13 mile bridged shot from
the
> > Nortel tower to the Army Corps of Engineers 150 ft self support
> tower
> > at Lake Lavon, with a separate 2m bridge down into the site on
the
> > other side of the dam. Alternate plan is to attempt a bridge from
a
> > local WISP down into the site from a couple of possible
directions.
> >
> > The NT5NT-4AP station is in place to do this, however, ground
> testing
> > from the Lavon area, which was successful last year, failed this
> time
> > around. There is likely an antenna pointing issue on the NT5NT-
4AP

> > side, which is now using the 24db grid. Poor connections were
made
> > successfully last year with a 16db panel at that location. Goal
is
> > to use a higher gain grid rather higher TX power with a panel to
> > minimize interference into the 802.11b system on the executive
> floor
> > below.
> >
> > COMMENTS
> >
> > Noted this last year, but for this rapid mobilization stuff these
> 24
> > db grids just don't have an antenna mount that allows for very
> > reliable adjustment. The mount on mine is so tight that I have
to
> > whack it to make it move, which is obviously not good for fine
> > adjustment.
> >
> > Also, the antenna on top of the roof is on a pole that is in an
bad
> > position to get behind for a sight line behind the antenna. I
need
> > an optical aid that I can put on the feed point. Thinking about
> > rigging up a cheap CCD camera behind a rifle scope or something
> like
> > that.
> >
> > Thinking about flexible mounting systems for antennas. I've in
the
> > past been using the ball mount system from RAM products (see
> > www.gpscity.com). I've had a 1in ball on one of those automotive
> > suction cups for a while, now I have one on a mag mount antenna.
> > Going to use that to clamp that 8db antenna to the steel here on
> the
> > Nortel bldg. Definitely something to look into if you are
looking
> at
> > keeping HSMM stuff for emergency deployment.

651. Re: dishes

Yahoo group: DAWG-HSMM
Date: 2005-04-22 17:15:36 UTC
From: Ken Peter
Topic: 617 Message: 651

>From: Wes Johnston <yahoo@...>
>You know I have read about putting USB 802.11 adapters on satellite
>dishes!!
>One fellow in my town couldn't get into his house from laptop in shed, so
>he
>got a USB 802.11 dongle and a USB a-a extension cable, mounted the USB
>critter
>in a plastic box outside the shed, and it worked like a champ....

I am accumulating a small garage full of used 18 and 20 inch dishes and
mounting
hardware. We also replace a lot of bad LNBs in the field. I have lots of
complete
new dishes minus the LNB... Anyone who wants a truckload for non-commercial
HAM use, come get em.

I don't know why they won't issue us the replacement LNBs alone....
Perhaps like a PC power supply, its cheaper to buy the whole case?

652. Re: [ntms-hsmm] Re: Change of Plans - Rest Stop #4

Yahoo group: DAWG-HSMM
Date: 2005-04-22 20:49:14 UTC
From: douglas.kilgore@comcast.net
Topic: 647 Message: 652

No, I already looked into it. Too many trees.

I have a 30 inch dish with N connector. That's a few more db.

Doug

---------- Original message ----------

>
>
> Doug, can you see the fire station from there? If so, we might be
> able to link off the city system.
>
> --- In ntms-hsmm@yahoogroups.com, Douglas Kilgore
> wrote:
> > It's election time. Politics rules. The location of Rest Stop #4
> has
> > been changed. No longer will it be at Miller Elementary where we
> had
> > received approval and were within 802.11b line of sight to a hams
> house
> > 50 yds away.
> >
> > Instead the new location for Rest Stop #4 will be on the old Brand
> Road
> > cutoff which parallels the new Brand road on the east side of
> > Breckinridge park. There is a clear, unimpeded line of sight to
> the
> > Nortel building. We should be able to make a link directly to
> Nortel.
> >
> > Old Brand Road cutoff - excellent view of Nortel for testing
> > N 32:59.58
> > W 96:37.34
> >
> > An alternate plan will be to canvass the neighborhood directly to
> east
> > of Brand road to see if a homeowner will allow us to connect our
> > wireless link directly to their high speed internet. I will
> pursue
> > this alternative next week.
> >
> > Doug Kilgore Kd5OUG
> > Wild Ride Communications Coordinator
>
>

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>
>
> Yahoo! Groups Links
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>
>
>
>
>

[Non-text portions of this message have been removed]

653. RP-MMCX Pigtails

Yahoo group: DAWG-HSMM
Date: 2005-04-23 23:00:58 UTC
From: J. Beadles
Topic: 653 Message: 653

WLAN Parts has RP-MMCX pigtails cheap. Useful if you have one of the SMC cards with external antenna jacks.

http://www.wlanparts.com/category/specials/

654. 05 Wild Ride Update - Internet feed

Yahoo group: DAWG-HSMM
Date: 2005-04-25 00:02:00 UTC
From: J. Beadles
Topic: 654 Message: 654

Kevin KD5YVL and I installed the internet feed router on the Eisemann center, facing the NT5NT-3AP access point. The link between the APs will not be established until we can redo the antenna system on the NT5NT-3AP node.

655. Java VM Port to WRT54G?

Yahoo group: DAWG-HSMM
Date: 2005-04-25 00:12:02 UTC
From: AE5PL Lists
Topic: 655 Message: 655

I found the Mipselkaffe at http://controlap.com/loader.htm

Kaffe is an independent Java VM. Although I have not tested against it, javAPRSSrvr should work since Kaffe is supposed to be well above 1.1.4. Anyone want to try? I have also put together a jar file (about 47k instead of 163k) which is only the digipeater part of javAPRSSrvr. Further reduction in size can be gained by limiting the number of TNC interfaces supported (currently KipSS, AGWPE, Linux kernel AX.25 support, and direct /dev/tty serial interface).

Thanks to a friend over in Germany who found this link.

73,

Pete Loveall AE5PL
mailto:pete@...

656. Re: [ntms-hsmm] Java VM Port to WRT54G?

Yahoo group: DAWG-HSMM
Date: 2005-04-25 02:09:42 UTC
From: Bob and Debbie Kmak
Topic: 655 Message: 656

Pete,

Can you determine which Linux libraries javAPRSSrvr requires? That seems to be the limiting factor.

Bob

----- Original Message -----
From: "AE5PL Lists" <HamLists@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Sunday, April 24, 2005 7:12 PM
Subject: [ntms-hsmm] Java VM Port to WRT54G?

>
> I found the Mipselkaffe at http://controlap.com/loader.htm
>
> Kaffe is an independent Java VM. Although I have not tested against it,
> javAPRSSrvr should work since Kaffe is supposed to be well above 1.1.4.
> Anyone want to try? I have also put together a jar file (about 47k
> instead of 163k) which is only the digipeater part of javAPRSSrvr.
> Further reduction in size can be gained by limiting the number of TNC
> interfaces supported (currently KipSS, AGWPE, Linux kernel AX.25
> support, and direct /dev/tty serial interface).
>
> Thanks to a friend over in Germany who found this link.
>
> 73,
>
> Pete Loveall AE5PL
> mailto:pete@...
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

657. RE: [ntms-hsmm] Java VM Port to WRT54G?

Yahoo group: DAWG-HSMM
Date: 2005-04-25 03:49:31 UTC
From: AE5PL Lists
Topic: 655 Message: 657

javAPRSSrvr doesn't require any Linux libraries (except if you use the kernel AX.25 support). The MIPS port for Kaffe is supposedly tested on the WRT54G so javAPRSSrvr should work as well since javAPRSSrvr only uses constructs available in Java 1.1.4 (original generally available release) and Kaffe is supposedly 1.2 or higher.

73,

Pete Loveall AE5PL
mailto:pete@...t

> -----Original Message-----
> From: Bob and Debbie Kmak
> Posted At: Sunday, April 24, 2005 9:32 PM
> Subject: Re: [ntms-hsmm] Java VM Port to WRT54G?
>
> Can you determine which Linux libraries javAPRSSrvr requires?
> That seems to be the limiting factor.

658. Nortel Address Changes on Yahoo Group

Yahoo group: DAWG-HSMM
Date: 2005-04-27 18:49:50 UTC
From: Douglas Kilgore
Topic: 658 Message: 658

Those members of the list who use a Nortel email address that is changing should unsubscribe from the group with the old address then subscribe again with the new address.

You'll probably want to change any other Yahoo group to which you belong also.

Doug Kilgore KD5OUG

659. 05 Wild Ride - Start / Stop Internet Feed

Yahoo group: DAWG-HSMM
Date: 2005-04-28 16:28:03 UTC
From: J. Beadles
Topic: 659 Message: 659

The link between the City supplied internet connection at the Eisemann Center and the NT5NT bridge is now operational. The path is approximately 2200 feet long. The system is composed of two WRT54G units bridging using WDS, running Sveasoft Satori firmware. The Eiseman link radio is in a 19dB Rootenna. The NT5NT radio is in a sprinkler cabinet with an external 14dB antenna.

Problems encountered include:

1. Antenna port selection

I can say that I personally tested each AP with an antenna in the house before installing it. I must then say that many of them were wrong. These units put out significant amounts of RF even into a disconnected antenna port, and the RF environment in my house was sufficient to fool me in to thinking that I had the right port selected.

With the radios mounted in the environment, we were able to make contact with the radio in the rootenna enclosure at approximately 1000 feet even with the antenna switched to the wrong port. Also, if your test laptop is close to the AP, you may not see the results of the antenna pattern. In each installation, be sure to back off a distance, and test the antenna port selection.

2. High local noise

We had trouble getting the Eisemann to NT5NT link to work even though te signal from NT5NT was high enough at Eisemann to make the link, even though I could link to it using my Orinoco card and a lower gain antenna. Using the WRT's internal scan feature we determined that the noise coming off the Nortel tower from the APs in the tower were giving us about a 4dB SNR, not enough to make the link. We upped the antenna gain from 8dB to 14dB to improve the ratio. However, this means that we might not be able to get signal down into the event Start/Stop without another radio because of the narrower radiation pattern.

3. Loose antenna connections

We noticed that we were getting a lower signal strength than we expected. In fiddling with the antenna, we found that the antenna connection on the NT5NT end was on, but not tight. Tightening this connection improved the signal about 7dB (on an 8dB antenna). Check your connections!

General comments

This being such a short link, we could almost certainly get away with a lower gain antenna at the Eisemann center. However, the logistics of supplying the other sites means that this was the hardware I had to use.

660. WANTED: A Few Good Men - For an Antenna Party

Yahoo group: DAWG-HSMM
Date: 2005-04-28 21:55:31 UTC
From: Douglas Kilgore
Topic: 660 Message: 660

This Saturday afternoon Apr 30 we are going to put up a 30 ft Rohn tower in the yard of Dave Piekarski K5EEN in Nevada, TX. Dave lives 3/4 mile from Wild Ride Rest Stop #3 and is going to let us connect to the internet through his Direcway satellite connection. We will put up an 802.11b access point and test a link to the Nevada.

I need at least 5 good men to assist in this antenna raising.

Please reply to volunteer.

Doug Kilgore KD5OUG
Ph 972-231-8539

661. Wild Ride & Directway

Yahoo group: DAWG-HSMM
Date: 2005-04-29 01:51:18 UTC
From: Ken Patterson
Topic: 660 Message: 661

Hi Doug, & others.

Just reading the mail here & thought of a question.

Will the high latency of the Directway internet connection cause problems
for any of your applications, like streaming video/audio?

de Ken, N5EQT
From behind the pine curtain of East Texas, in EM22

662. Re: [ntms-hsmm] Wild Ride & Directway

Yahoo group: DAWG-HSMM
Date: 2005-04-29 02:40:32 UTC
From: Douglas Kilgore
Topic: 660 Message: 662

We will rely on series of still pictures uploaded to the web. However I would like to try using a video/voice program like Microsoft Net Meeting or some other equivalent program.

Has anyone had experience with Net Meeting establishing an external directory so that we can get thru firewalls?

Any suggestions or caveats?

Doug

Ken Patterson wrote:

>Hi Doug, & others.
>
>Just reading the mail here & thought of a question.
>
>Will the high latency of the Directway internet connection cause problems
>for any of your applications, like streaming video/audio?
>
>de Ken, N5EQT
>>From behind the pine curtain of East Texas, in EM22
>
>
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>
>Yahoo! Groups Links
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>

663. Re: [ntms-hsmm] Wild Ride & Directway

Yahoo group: DAWG-HSMM
Date: 2005-04-29 19:04:00 UTC
From: Gregg Wonderly
Topic: 660 Message: 663

Douglas Kilgore wrote:
> We will rely on series of still pictures uploaded to the web. However I
> would like to try using a video/voice program like Microsoft Net Meeting
> or some other equivalent program.
>
> Has anyone had experience with Net Meeting establishing an external
> directory so that we can get thru firewalls?

For those familiar with echolink, another choice might be to use my Javecho application in concert with the login server that is in the distribution. This lets you set up an echolink configuration on a private network. I can't tell whether you'll be using a split private-public net topology or if everyone will have access through the private 802.11 network to the public network.

Gregg Wonderly
W5GGW

664. 05 Wild Ride - Update

Yahoo group: DAWG-HSMM
Date: 2005-05-02 04:12:59 UTC
From: J. Beadles
Topic: 664 Message: 664

REST STOP 4 LINK

A 3/4 mile (approx. 1km) path to feed rest stop 4 was successfully tested on Saturday. Dave Piekarski, K5EEN, was found to live slightly to the WSW of the school where the rest stop will be located, and has line of site to the same location we attempted to bridge to last year. A WRT in a 14dB Rootenna was lifted on a 35ft tower section provided by the McKinney ARC. Dave lives in a rural area, and receives internet access via DirecWay satellite service.

The School end of the link is behind the school building from the rest stop, on a set of playground equipment. To provide coverage of the actual rest stop location, we will once again have to run approximately 500 ft of Cat-5 cable from the AP around the building, where it will connect to another AP which will cover the immediate rest stop area.

START / STOP link

KD5OUG and I tested the downlink to the start / stop area today. This hop will consist of 2 legs, each approximately .5 miles in length. The City of Richardson is providing an internet feed from the Eisemann building, 2200 ft north of the NT5NT AP on the 15 story Nortel bldg. The start / stop area is in the national MCI Engineering Headquarters parking lot, east of the NT5NT AP.

The uplink from Eisemann to NT5NT was completed and verified last week. We tested the downlink bridge today, and were successfull, though not to the MCI parking lot. The issue that arose is that the antenna beamwidth of the NT5NT end is too narrow to cover both sites as it is currently pointed. NT5NT had to have a 14dB antenna to provide enough signal to mask the 802.11b noise out of the other APs in the Nortel bldg into the Eisemann radio. We'll attempt to turn the antenna just enough to cover the start / stop area while maintaining the Eisemann link.

Pictures will follow.

665. May 7th North Texas Microwave Society Meeting

Yahoo group: DAWG-HSMM
Date: 2005-05-03 12:39:17 UTC
From: Bob and Debbie Kmak
Topic: 665 Message: 665

Guys,

Please join us for the May NTMS Meeting

Presentations will include:

"Phase Noise Analysis of Both the CT1DMK Reflock Board and Two New Approaches to the PLL by VE1ALQ"
by Al Ward, W5LUA

"Linrad, a Linux-based DSP for the Weak Signal Enthusiast", by Jim McMasters, KM5PO

Meeting time: 12 PM to 5 PM
Saturday May 7th, 2005

Location: St. Barnabas Presbyterian Church
1220 W. Belt Line Rd.
(NE corner of Mimosa and Belt Line)
Richardson, TX

Entrance to meeting hall is from the parking lot on the north side of the building.

NTMS website: www.ntms.org

73,

Bob K5WO

666. 902 and 1296 Amplifiers. Website moved

Yahoo group: DAWG-HSMM
Date: 2005-05-04 19:35:10 UTC
From: kj6ko kj6ko
Topic: 666 Message: 666

Hello all..
My ISP decided to switch servers and lost the entire website and all it's contents. Here is the new location or just click on the link under my call on QRZ.com. All info on the beacons and amplifiers seems to be working OK, but there are still a few missing photos and links around the site that I will be slowly repairing. Sorry for confusion!

73 de Greg KJ6KO

http://users.innercite.com/kj6ko/welcome.htm

667. Re: [ntms-hsmm] 902 and 1296 Amplifiers. Website moved

Yahoo group: DAWG-HSMM
Date: 2005-05-05 02:53:36 UTC
From: Walt DuBose
Topic: 666 Message: 667

kj6ko kj6ko wrote:
> Hello all..
> My ISP decided to switch servers and lost the entire website and all
> it's contents. Here is the new location or just click on the link under
> my call on QRZ.com. All info on the beacons and amplifiers seems to be
> working OK, but there are still a few missing photos and links around
> the site that I will be slowly repairing. Sorry for confusion!
>
> 73 de Greg KJ6KO
>
> http://users.innercite.com/kj6ko/welcome.htm
Greg,

Do you have an Edsel for sale?

Walt/K5YFW

668. Re: [ntms-hsmm] 902 and 1296 Amplifiers. Website moved

Yahoo group: DAWG-HSMM
Date: 2005-05-05 05:11:53 UTC
From: Greg KJ6KO
Topic: 666 Message: 668

..Hi Walt... No....I have one 2 door Pacer in pretty good shape and a four door parts car that was supposed to become a drag racer, but never found the time. I plan on adding a section to the page profiling my cars very soon. I will put pictures up on it then. I think you are the first person to ask about the background on the page! Thanks and 73 de Greg Member Cal-Neva Edsels ---------- Original Message ---------- From: Walt DuBose Reply-To: ntms-hsmm@yahoogroups.com Date: Wed, 04 May 2005 21:53:36 -0500 > > > > >kj6ko kj6ko wrote:
>> Hello all..
>> My ISP decided to switch servers and lost the entire website and all
>> it's contents. Here is the new location or just click on the link under
>> my call on QRZ.com. All info on the beacons and amplifiers seems to be
>> working OK, but there are still a few missing photos and links around
>> the site that I will be slowly repairing. Sorry for confusion!
>>
>> 73 de Greg KJ6KO
>>
>> http://users.innercite.com/kj6ko/welcome.htm
>Greg,
>
>Do you have an Edsel for sale?
>
>Walt/K5YFW
> > > > > > > >
> >Yahoo! Groups Links
> >
- To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/
>
- To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com
>
- Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
(http://docs.yahoo.com/info/terms/). > > > > > > > > > > >

669. 05 Wild Ride - Lake Lavon tower install

Yahoo group: DAWG-HSMM
Date: 2005-05-07 04:02:55 UTC
From: J. Beadles
Topic: 669 Message: 669

All,

Sorry for the late notice, but we will attempt to install our APs on the Lake Lavon Army Corps of Engineers tower on Saturday after about 2pm, but may start later. Interested persons are welcome to help out. The tower is located on the west end of the Lavon dam road, N of 78, east of Wiley. Look for N5OOM and KD5OUG on APRS.

670. Re: 05 Wild Ride - Lake Lavon tower install

Yahoo group: DAWG-HSMM
Date: 2005-05-12 20:37:05 UTC
From: J. Beadles
Topic: 669 Message: 670

We did not succeed in getting the APs up on the tower last week due to personal schedule conflicts. We are going to try again this Saturday sometime after 1pm or 2pm. Any interested parties are welcome. Coordinate on the NT5NT repeater. 443.325, pl 110.9.

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
> All,
>
> Sorry for the late notice, but we will attempt to install our APs on
> the Lake Lavon Army Corps of Engineers tower on Saturday after about
> 2pm, but may start later. Interested persons are welcome to help
> out. The tower is located on the west end of the Lavon dam road, N
of
> 78, east of Wiley. Look for N5OOM and KD5OUG on APRS.

671. 05 Wild Ride update

Yahoo group: DAWG-HSMM
Date: 2005-05-15 17:37:53 UTC
From: J. Beadles
Topic: 671 Message: 671

Rest Stop 2 update

The bulk of the tower install at Lake Lavon Army Corps of Engineers tower was completed yesterday. This is a two-hop system, with a feed from a local wireless internet service provider (WISP). The rest stop is only about a mile from the WISP's location, but cannot feed the system directly due to terrain. The wisp has provided us with one of his residential bridge units, which we have placed at about 50 ft. This is ged to a router on the ground, which in turn feeds the HSMM bridge which is just under the WISP unit.

Both units are placed, we did verify signal from the wisp and the router is routing correctly. However, we ran out of daylight before we were able to test the rest stop link. We expect to be doing this today, after 3pm. As usual, we'll coordinate on 443.325 pl 110.9

672. 05 Wild Ride Update

Yahoo group: DAWG-HSMM
Date: 2005-05-16 03:05:45 UTC
From: J. Beadles
Topic: 672 Message: 672

START / STOP

The 2 hop bridge system that will provide internet access was successfully tested end to end and webcam pictures uploaded. This system now consists of 4 WRT54Gs connecting two hops each approximately 1/2 mi long.

RS2

We did not finish the configuration for RS2 as was planned. This may be finished up on Wednesday.

673. Equipment and Volunteers Needed for HamCom Networking

Yahoo group: DAWG-HSMM
Date: 2005-05-18 17:42:41 UTC
From: Bob and Debbie Kmak
Topic: 673 Message: 673

Guys,

Once again I'll be involved in providing internet connectivity for the HamCom forums and some exhibitor's booths.
To make everything work, we'll need several additional 802.11b or 802.11g AP's and/or routers. If you have any such equipment that you can loan to the HamCom effort for use on June 2 through June 5 please contact me directly.
My email is bdkmak at comcast.net .
Linksys WRT54Gs would be preferred but anything that works will be welcome.

Also, if anyone has a VGA color camera that can be lent to the HamCom effort please let me know. An ethernet camera would of course be the cat's meow but we can put a USB camera to good use also. We plan to create RealNetworks video clips while HamCom is in progress and post them on the web page so that people at home can get a feel for what's going on.

Finally, we'll be doing the installation on Thursday June 1st, probably starting late in the morning. We will have two internet feeds- a DSL line from SBC and a DirectWay satellite connection. If you would like to help out with the install effort please let me know. It's a big building and lots of cat5 will have to be run to connect everything together. The installation will be the bulk of the work, but the operation of the network will have to be monitored and maintained all through the HamCom operation. If you'd like to help out or want more information please contact me direct.

73,

Bob Kmak
K5WO

674. 05 Wild Ride Update - Rest Stop 2

Yahoo group: DAWG-HSMM
Date: 2005-05-19 05:22:59 UTC
From: J. Beadles
Topic: 674 Message: 674

The network connection to rest stop 2 was successfully tested end to end this evening. The system consists of a roughly 4 mile hop from a local Wireless Internet Service provider to the Lake Lavon Army Corps of Engineers tower, and then back approximately 2.4 miles to Rest Stop 2. A webcam is also located at the tower. The system is operational at this time, and the webcam is transmitting photos back to the www.k5rwk.org web site.

I'll have pics later, but the at the actual RS2 location was performed by putting the 19dB Rootenna enclosure on the ground, roughly facing the tower, propped up against my bumper. It successfully bridged as soon as power was applied. Love it when a plan comes together.

675. Re: Equipment and Volunteers Needed for HamCom Networking

Yahoo group: DAWG-HSMM
Date: 2005-05-19 05:23:48 UTC
From: J. Beadles
Topic: 673 Message: 675

Bob, I'll have a bunch of WRTs once the wild ride is done.

--- In ntms-hsmm@yahoogroups.com, "Bob and Debbie Kmak" <bdkmak@c...>
wrote:
> Guys,
>
> Once again I'll be involved in providing internet connectivity for
the
> HamCom forums and some exhibitor's booths.
> To make everything work, we'll need several additional 802.11b or
802.11g
> AP's and/or routers. If you have any such equipment that you can
loan to the
> HamCom effort for use on June 2 through June 5 please contact me
directly.
> My email is bdkmak at comcast.net .
> Linksys WRT54Gs would be preferred but anything that works will be
welcome.
>
> Also, if anyone has a VGA color camera that can be lent to the
HamCom effort
> please let me know. An ethernet camera would of course be the cat's
meow but
> we can put a USB camera to good use also. We plan to create
RealNetworks
> video clips while HamCom is in progress and post them on the web
page so
> that people at home can get a feel for what's going on.
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> Finally, we'll be doing the installation on Thursday June 1st,
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> starting late in the morning. We will have two internet feeds- a
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> cat5 will have to be run to connect everything together. The
installation
> will be the bulk of the work, but the operation of the network will
have to
> be monitored and maintained all through the HamCom operation. If
you'd like
> to help out or want more information please contact me direct.
>

> 73,
>
> Bob Kmak
> K5WO

676. Re: [ntms-hsmm] Re: Equipment and Volunteers Needed for HamCom Networking

Yahoo group: DAWG-HSMM
Date: 2005-05-19 10:58:50 UTC
From: Bob and Debbie Kmak
Topic: 673 Message: 676

Thanks John, I'll hook up with you right after Memorial Day.

73,

Bob
----- Original Message -----
From: "J. Beadles" <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Thursday, May 19, 2005 12:23 AM
Subject: [ntms-hsmm] Re: Equipment and Volunteers Needed for HamCom Networking

> Bob, I'll have a bunch of WRTs once the wild ride is done.
>
> --- In ntms-hsmm@yahoogroups.com, "Bob and Debbie Kmak" <bdkmak@c...>
> wrote:
> > Guys,
> >
> > Once again I'll be involved in providing internet connectivity for
> the
> > HamCom forums and some exhibitor's booths.
> > To make everything work, we'll need several additional 802.11b or
> 802.11g
> > AP's and/or routers. If you have any such equipment that you can
> loan to the
> > HamCom effort for use on June 2 through June 5 please contact me
> directly.
> > My email is bdkmak at comcast.net .
> > Linksys WRT54Gs would be preferred but anything that works will be
> welcome.
> >
> > Also, if anyone has a VGA color camera that can be lent to the
> HamCom effort
> > please let me know. An ethernet camera would of course be the cat's
> meow but
> > we can put a USB camera to good use also. We plan to create
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> > video clips while HamCom is in progress and post them on the web
> page so
> > that people at home can get a feel for what's going on.
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> > Finally, we'll be doing the installation on Thursday June 1st,
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> > starting late in the morning. We will have two internet feeds- a

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> > from SBC and a DirectWay satellite connection. If you would like to
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> > cat5 will have to be run to connect everything together. The
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> > will be the bulk of the work, but the operation of the network will
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> > be monitored and maintained all through the HamCom operation. If
> you'd like
> > to help out or want more information please contact me direct.
> >
> > 73,
> >
> > Bob Kmak
> > K5WO
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> Yahoo! Groups Links
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677. Gear for HamCom

Yahoo group: DAWG-HSMM
Date: 2005-05-19 15:31:01 UTC
From: Randall Dunning
Topic: 677 Message: 677

wrt54g with sveasoft load
befw11s4 with wds load and wsb24 amp.
hawking amp
wet11 with senao upgrade

All but the hawking are in wx proof cases ready
for mounting with PoE capabilities. Let me know
if you need to use any of this equip.

Cheerio,

RD - KC5QHH

[Non-text portions of this message have been removed]

678. NTMS-HSMM Hams Use 802.11b for Real-Time Support of Bike Rally

Yahoo group: DAWG-HSMM
Date: 2005-05-19 17:23:29 UTC
From: Douglas Kilgore
Topic: 678 Message: 678

On Saturday morning May 21 at Dayton Hamvention and elsewhere in the world, persons interested in HSMM can view the progress of a 64 mile Wild Ride bike rally in Richardson, TX on a real-time basis. Members of the NTMS-HSMM group have set up 802.11b webcams at each of 4 rest stops on the circular route to upload pictures to a web site:

http://www.k5rwk.org/wr/wildride.html

The real-time pictures will be used by Net Control and the City of Richardson command post to keep track of the rally. To promote amateur radio, a separate trailer has been set up at the Finish area to show the pictures to the public.

Two of the rest stops are in a rural area. Multiple hops are needed for connection to the internet. At Nevada, TX, 3 links connect to a Directway satellite feed 3/4 mile away. At Lake Lavon, 2 links connect to a local Wireless Independent Service provider 2 miles away.

At the Start/Finish area, multiple links are necessary to bring the internet connection from the City of Richardson feed point around tall buildings to the trailer and net control van location. Linksys WRT54G access points loaded with SVEASOFT Alchemy firmware and directional antennas move the signal to where it's needed in the RF unfriendly environment.

It's been an exciting, worthwhile learning experience for hams to acquire, assemble, set up and activate the 2.4 Ghz equipment for this public service event.

Watch us live on Saturday morning.

Doug Kilgore KD5OUG
Wild Ride Communications Coordinator
Ph 972-231-8539 Home
Ph 214-924-8420 Cell
kd5oug@...

679. Re: [ntms-hsmm] Gear for HamCom

Yahoo group: DAWG-HSMM
Date: 2005-05-19 23:57:18 UTC
From: Bob and Debbie Kmak
Topic: 677 Message: 679

Thanks Randall. I'm going to be out of town for a week but I'll get in touch after Memorial Day.

73,

Bob

----- Original Message -----
From: "Randall Dunning" <rdunning@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Thursday, May 19, 2005 10:31 AM
Subject: [ntms-hsmm] Gear for HamCom

> wrt54g with sveasoft load
> befw11s4 with wds load and wsb24 amp.
> hawking amp
> wet11 with senao upgrade
>
> All but the hawking are in wx proof cases ready
> for mounting with PoE capabilities. Let me know
> if you need to use any of this equip.
>
> Cheerio,
>
> RD - KC5QHH
>
>
> [Non-text portions of this message have been removed]
>
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> Yahoo! Groups Links
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680. SD Card Reader mod for WRT54G

Yahoo group: DAWG-HSMM
Date: 2005-05-20 17:34:00 UTC
From: J. Beadles
Topic: 680 Message: 680

Interesting way to add more memory. The firmware needs mods to see the memory though.

http://kiel.kool.dk:27/

681. Wild Flower Ham Link on WildFlower Festival Page

Yahoo group: DAWG-HSMM
Date: 2005-05-20 19:43:18 UTC
From: Douglas Kilgore
Topic: 681 Message: 681

The live pictures from the ham radio webcams at Wild Ride bike rally are linked from the main City of Richardson's Wild Flower Festival web page.
http://www.wildflowerfestival.com/

Click on the :"Live Video" link just right of the Wild Ride Logo.

Doug Kilgore KD5OUG
Wild Ride Communications Coordinator
Ph 972-231-8539
kd5oug@...

[Non-text portions of this message have been removed]

682. RE: [ntms-hsmm] Digest Number 206

Yahoo group: DAWG-HSMM
Date: 2005-05-23 16:21:15 UTC
From: Randall Dunning
Topic: 682 Message: 682

SD cards are considerably more expensive than memory stick and
CF cards. I would prefer a CF solution. With 256 Meg (fairly cheep
these days) I think all the WinLink/Telpak and APRS stuff would fit
in with room to spare.

RD

Interesting way to add more memory. The firmware needs mods to see
the memory though.

http://kiel.kool.dk:27/

[Non-text portions of this message have been removed]

683. Lazy WDS for BEFW11S4

Yahoo group: DAWG-HSMM
Date: 2005-05-23 17:33:50 UTC
From: Randall Dunning
Topic: 683 Message: 683

Hello,

I successfully installed 1.52.02 (7 April 2005) firmware on my BEFW11S4v4 last night and low and behold it worked! Next I went in to hunt down all the new features. I found everything that interested me except Lazy WDS. There was no info, help, or menu option that gave any clue as to how to enable or utilize this feature. I spent part of lunch, navigating the global labyrinth of Linksys tech-support centers as each one scratches his or her head trying to answer the basic question: Can I mesh my 11S4 with a 54G using WDS?

While waiting I googled this topic and found 1 apparently useful post which I reproduce below from http://www.broadbandreports.com/forum/remark,13242612~start=60 courtesy of a poster named Jongoz:

BEFW11S4 has lazy WDS activated by default and it's not in the menu.

Lazy WDS means that any AP within the same channel can be associated with the BEFW11S4.

1) Use the same channel for both routers (BEFW11S4, WRT54G) but SSID can be different. No encryption for the purpose of testing. (BEFW11S4 can only use static key and no WPA support for WDS)
2) Put different IP for both routers (in my case 192.168.1.2 and 192.168.1.1)
3) Enable WDS in the WRT54G. Disable Lazy WDS but put in the BEFW11S4 MAC address in the WDS setting in the WRT54G
4) Save and reboot both routers. Fortunately for me, I got it working in less than 20 minutes.

The Linksys guy said:

You can add a BEFW11S4 to existing network with WDS but you cannot use it as a repeater itself. He confirmed the above steps as being correct for using the 11S4 in a WDS "poor man's mesh". The bottom line is, since the 11S4 has no repeater capability, it can be one of the leaves of the mesh but not one of the central nodes. Well at least this breaths new life into my BEFW11S4/WSB-24 that I spent so much money on.

Cheerio,

RD - KC5QHH

[Non-text portions of this message have been removed]

684. Hey John! Give me a call quick...

Yahoo group: DAWG-HSMM
Date: 2005-05-23 19:00:39 UTC
From: Jerry Karlovich
Topic: 684 Message: 684

You have me scheduled at the same time as the DX Lunch. I am going to the DX Lunch. Forgive me for using this forum but I knew this is the best place to get a message to John.

Jerry 972-423-4500

685. Link - Interesting cheap ethernet test tools

Yahoo group: DAWG-HSMM
Date: 2005-05-23 19:36:29 UTC
From: J. Beadles
Topic: 685 Message: 685

http://electronicproducts.com/ShowPage.asp?SECTION=3700&PRIMID=&FileName=hlrc02.jul2005.html

686. Re: Hey John! Give me a call quick...

Yahoo group: DAWG-HSMM
Date: 2005-05-23 19:39:43 UTC
From: J. Beadles
Topic: 684 Message: 686

Okedoke.

--- In ntms-hsmm@yahoogroups.com, "Jerry Karlovich" <kd5om@k...> wrote:
> You have me scheduled at the same time as the DX Lunch. I am going
to
> the DX Lunch. Forgive me for using this forum but I knew this is the
> best place to get a message to John.
>
> Jerry 972-423-4500

687. Re: Digest Number 206

Yahoo group: DAWG-HSMM
Date: 2005-05-23 19:39:02 UTC
From: J. Beadles
Topic: 682 Message: 687

Beats me. A very quick read-through of the article gave me the impression that they were able to do this due to the extremely simple nature of the interface. No clue if a similar installation with different card types is possible.

--- In ntms-hsmm@yahoogroups.com, "Randall Dunning" <rdunning@n...> wrote:
> SD cards are considerably more expensive than memory stick and
> CF cards. I would prefer a CF solution. With 256 Meg (fairly cheep
> these days) I think all the WinLink/Telpak and APRS stuff would fit
> in with room to spare.
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> Interesting way to add more memory. The firmware needs mods to see
> the memory though.
>
> http://kiel.kool.dk:27/
>
>
>
> [Non-text portions of this message have been removed]

688. Re: [ntms-hsmm] Link - Interesting cheap ethernet test tools

Yahoo group: DAWG-HSMM
Date: 2005-05-23 19:47:13 UTC
From: Keith Berry
Topic: 685 Message: 688

I've made my own for years; strip out a piece of
CAT-5, loopback a pair and crimp it in the connector.
If anyone wants a set I will sell them for only $3.00
each, however they don't have the nifty chain. ;-)

Keith

--- "J. Beadles" <jbeadles@...> wrote:

---
http://electronicproducts.com/ShowPage.asp?
SECTION=3700&PRIMID=&FileName=hlrc02.jul2005.html

Yahoo! Groups Links

To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/

To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo!
Terms of Service.

689. 05 Wild Ride - post event review

Yahoo group: DAWG-HSMM
Date: 2005-05-23 20:10:09 UTC
From: J. Beadles
Topic: 689 Message: 689

There's a lot more to discuss than I have time to write, but here's an overview. I'm going to be writing this up as an article for QST or CQ-VHF. Also, this info will be built into the upcoming Hamcom presentations.

1. Links to all stations were made to work.

1a. The start / stop link did work over one hop at least. The two hop system suffered from environmental noise and was not entirely reliable.

1b. Rest stop 1 relied on a single AP to client link. Doug has been working getting access to this site for the past month and suffered several last minute losses of internet service providers. He was able to get something working at the last minute, though I don't know how.

1c. Rest stop 2 (2 hops) worked fine once I was able to get the equipment to the location after being delayed at RS3.

1d. Rest stop 3 (2 hops, 3 really) worked fine though setup took a bit longer. This was due to having to run very long ethernet cables on site and having to physically modify one of the bridge radios.

1e. Rest stop 4 worked fine with the link provided by a nearby resident. The link worked until 11am, when it stopped, reason unknown.

2. There were problems making the links work at the start / stop largely due to computer, personnel and environment issues.

2a. While KD5OUG and I did end to end testing, from start /stop, we were not able to use all the hardware that would be available on site and we were not personally the persons to do the hookups the morning of the event. The person who did the hookups did not have the familiarity of the system that we did and was not able to work out all of the kinks during the event.

2b. A direct link was made from the Dallas ARC van which was being used for net control. The brand new computer suffered a spontaneous failure, so net control access to the internet was delayed.

2c. The most problematic link was the hop from the internet feed to the Irving ARC club trailer. This is due to the high noise environment over the .5 mi link.

2c. The internet link to the Irving ARC van used computers for display that were not available prior to the event.

3. The web cams were problematic.

3a. The AXIS webcam at the tower had a problem before the event, but after KD5YVL got it sorted out and remounted, it worked fine the whole duration of the event.

3b. Most of the stations used small USB webcams. I'm less than impressed by these units. They seem to be totally intended to use as desktop only units, with a focus band in the range of feet. They simply could not be made to focus at practical ranges, and the images on the web page show this.

There are some low-cost ethernet webcams on the market but my experience with them has not been good. I've had 2 Dlink units fail quickly, and neither would reliably FTP a pic onto a remote server. Tjhere is a better quality of webcam from AXIS. The obsolete 200+ model works fine and can run an auto-iris lens, if with poor dark performance.

There is a webcam software called WebcamDV, which allows a DV (digital video) camcorder to be used as a webcam over a firewire connection. I think I'll be investigating this. Another option is to use one of the better grades of cheap surveillance camera ($100+) with a USB video grabber unit. This solution is in the $200 range, but should work much better.

3c. The webcam software was problematic. Several of the stations used a package which could not interact well with the server. It kept adding an incrementing number on the end of the image file name, preventing it from being recognized. I did not have access to this beforehand to fix. I thought I'd be able to do it the day of the event, but could not. There is a cheaper (if somewhat cheezy) solution called ConquerCam ($10 with a free 30 day trial) which worked fine.

3d. The webcam photo updater script worked well, with reservations. My web server provided anonymous FTP access for stations uploading photos. All stations were requested to use their call as a password, uploading files once per minute. This was taken to satisfy their call ID requirements. I wrote a small PERL script to transfer the photos to the web directory and to create a thumbnail image. The intent was to provide an index page to all the thumbnails, but this could not be completed before the event.

As I could not make the previously mentioned webcam software stop appending a number to the file extension, I had to run home (35 mi!!!) in the middle of the event to modify the script to parse the number off those image files. Once I did this, those files uploaded fine.

Also, the APRS web page had to be updated with all of the APRS ssids during the event. The script provided for copying these files into the proper location. Because start/stop had their internet access delayed, it appears that this never got done.

690. Re: [ntms-hsmm] 05 Wild Ride - post event review

Yahoo group: DAWG-HSMM
Date: 2005-05-23 21:03:46 UTC
From: Thorsten von Eicken
Topic: 689 Message: 690

Jeeze, how can it be that hard to set up a couple of access points and run a few web cams? Any teenager can do that these days! ;-) ;-) ;-)

Sounds like you had lots of fun and the almost inevitable dose of frustration! Congrats for attempting all this and getting most of it working. Until you do it yourself, nobody realizes just how hard it is. Specially when trying to fit into a tight budget.

Cheers,
Thorsten

J. Beadles wrote:

> There's a lot more to discuss than I have time to write, but here's an
> overview. I'm going to be writing this up as an article for QST or CQ-
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>
> 1. Links to all stations were made to work.
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> 1b. Rest stop 1 relied on a single AP to client link. Doug has been
> working getting access to this site for the past month and suffered
> several last minute losses of internet service providers. He was able
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> longer. This was due to having to run very long ethernet cables on
> site and having to physically modify one of the bridge radios.
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> 1e. Rest stop 4 worked fine with the link provided by a nearby
> resident. The link worked until 11am, when it stopped, reason unknown.
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>
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> 2a. While KD5OUG and I did end to end testing, from start /stop, we
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> of the kinks during the event.
>
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> failure, so net control access to the internet was delayed.
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> 2c. The most problematic link was the hop from the internet feed to
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> simply could not be made to focus at practical ranges, and the images
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>
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> quickly, and neither would reliably FTP a pic onto a remote server.
> Tjhere is a better quality of webcam from AXIS. The obsolete 200+
> model works fine and can run an auto-iris lens, if with poor dark
> performance.
>
> There is a webcam software called WebcamDV, which allows a DV (digital
> video) camcorder to be used as a webcam over a firewire connection. I
> think I'll be investigating this. Another option is to use one of the
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> grabber unit. This solution is in the $200 range, but should work
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> 3c. The webcam software was problematic. Several of the stations used
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> preventing it from being recognized. I did not have access to this
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>
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> ---
> *Yahoo! Groups Links*
>
> * To visit your group on the web, go to:
> http://groups.yahoo.com/group/ntms-hsmm/
>
> * To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
> <mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>

691. 2.4gig fresnel question

Yahoo group: DAWG-HSMM
Date: 2005-05-24 00:03:30 UTC
From: Wes Johnston
Topic: 689 Message: 691

I am trying to link a ham's house to a water tower 2.17km away. I climbed to the top of his tower and in the last 5 feet of my climb, suddenly the water tower revealed itself to me thru the trees. About 1/3 of the way to the site, there is a tall pine tree which obscures a fair amount of the tower. I can see only about a 20' square patch of the tank (the tank is prob 50 feet diameter and 20' tall.) Our plan is to put a parabolic dish on the hand rail of the tower, which I estimate 3' above the hand rail is where I start to see the tank. My question is this 20' square "hole" in the canopy enough to shoot thru? I'd hate to spend $90 or $100 on a pair of antennas only to find out it won't work.

The link budget calcs from radio mobile say s9+10 with 30mW, s9+20 with 250mW. 24dBi antennas at each end.
Wes

692. Re: 2.4gig fresnel question

Yahoo group: DAWG-HSMM
Date: 2005-05-24 01:25:13 UTC
From: J. Beadles
Topic: 689 Message: 692

Ouch! That's a killer. Where is this, Wes? If you are close, we could try it...

If it's only one tree, it might still work, with reduced signal level, or you might overcome it with a power amp or Senao radios.

Alternately, this might be a good application for some surplus 900MHz gear.

--- In ntms-hsmm@yahoogroups.com, Wes Johnston <yahoo@k...> wrote:
> I am trying to link a ham's house to a water tower 2.17km away. I
> climbed to the top of his tower and in the last 5 feet of my climb,
> suddenly the water tower revealed itself to me thru the trees. About
> 1/3 of the way to the site, there is a tall pine tree which obscures a
> fair amount of the tower. I can see only about a 20' square patch of
> the tank (the tank is prob 50 feet diameter and 20' tall.) Our plan is
> to put a parabolic dish on the hand rail of the tower, which I estimate
> 3' above the hand rail is where I start to see the tank. My question is
> this 20' square "hole" in the canopy enough to shoot thru? I'd hate to
> spend $90 or $100 on a pair of antennas only to find out it won't work.
>
> The link budget calcs from radio mobile say s9+10 with 30mW, s9+20 with
> 250mW. 24dBi antennas at each end.
> Wes

693. Re: 05 Wild Ride - post event review

Yahoo group: DAWG-HSMM
Date: 2005-05-24 01:26:53 UTC
From: J. Beadles
Topic: 689 Message: 693

Budget?

Heh heh heh! Yeah, it was typical, but now we have a better idea of
what we can and cannot do. Now if I can remote a telpac node or APRS
digi, I'll have another demonstrator.

--- In ntms-hsmm@yahoogroups.com, Thorsten von Eicken <tve-
yahoo@v...> wrote:
> Jeeze, how can it be that hard to set up a couple of access points
and
> run a few web cams? Any teenager can do that these days! ;-) ;-
) ;-)
>
> Sounds like you had lots of fun and the almost inevitable dose of
> frustration! Congrats for attempting all this and getting most of
it
> working. Until you do it yourself, nobody realizes just how hard it
is.
> Specially when trying to fit into a tight budget.
>
> Cheers,
> Thorsten
>
> J. Beadles wrote:
>
> > There's a lot more to discuss than I have time to write, but
here's an
> > overview. I'm going to be writing this up as an article for QST
or CQ-
> > VHF. Also, this info will be built into the upcoming Hamcom
> > presentations.
> >
> > 1. Links to all stations were made to work.
> >
> > 1a. The start / stop link did work over one hop at least. The
two hop
> > system suffered from environmental noise and was not entirely
reliable.
> >
> > 1b. Rest stop 1 relied on a single AP to client link. Doug has
been
> > working getting access to this site for the past month and
suffered
> > several last minute losses of internet service providers. He was
able

> > to get something working at the last minute, though I don't know
how.
> >
> > 1c. Rest stop 2 (2 hops) worked fine once I was able to get the
> > equipment to the location after being delayed at RS3.
> >
> > 1d. Rest stop 3 (2 hops, 3 really) worked fine though setup took
a bit
> > longer. This was due to having to run very long ethernet cables
on
> > site and having to physically modify one of the bridge radios.
> >
> > 1e. Rest stop 4 worked fine with the link provided by a nearby
> > resident. The link worked until 11am, when it stopped, reason
unknown.
> >
> >
> > 2. There were problems making the links work at the start / stop
> > largely due to computer, personnel and environment issues.
> >
> > 2a. While KD5OUG and I did end to end testing, from start /stop,
we
> > were not able to use all the hardware that would be available on
site
> > and we were not personally the persons to do the hookups the
morning
> > of the event. The person who did the hookups did not have the
> > familiarity of the system that we did and was not able to work
out all
> > of the kinks during the event.
> >
> > 2b. A direct link was made from the Dallas ARC van which was being
> > used for net control. The brand new computer suffered a
spontaneous
> > failure, so net control access to the internet was delayed.
> >
> > 2c. The most problematic link was the hop from the internet feed
to
> > the Irving ARC club trailer. This is due to the high noise
> > environment over the .5 mi link.
> >
> > 2c. The internet link to the Irving ARC van used computers for
display
> > that were not available prior to the event.
> >
> > 3. The web cams were problematic.
> >
> > 3a. The AXIS webcam at the tower had a problem before the event,
but
> > after KD5YVL got it sorted out and remounted, it worked fine the

whole
> > duration of the event.
> >
> > 3b. Most of the stations used small USB webcams. I'm less than
> > impressed by these units. They seem to be totally intended to
use as
> > desktop only units, with a focus band in the range of feet. They
> > simply could not be made to focus at practical ranges, and the
images
> > on the web page show this.
> >
> > There are some low-cost ethernet webcams on the market but my
> > experience with them has not been good. I've had 2 Dlink units
fail
> > quickly, and neither would reliably FTP a pic onto a remote
server.
> > Tjhere is a better quality of webcam from AXIS. The obsolete 200+
> > model works fine and can run an auto-iris lens, if with poor dark
> > performance.
> >
> > There is a webcam software called WebcamDV, which allows a DV
(digital
> > video) camcorder to be used as a webcam over a firewire
connection. I
> > think I'll be investigating this. Another option is to use one
of the
> > better grades of cheap surveillance camera ($100+) with a USB
video
> > grabber unit. This solution is in the $200 range, but should work
> > much better.
> >
> > 3c. The webcam software was problematic. Several of the stations
used
> > a package which could not interact well with the server. It kept
> > adding an incrementing number on the end of the image file name,
> > preventing it from being recognized. I did not have access to
this
> > beforehand to fix. I thought I'd be able to do it the day of the
> > event, but could not. There is a cheaper (if somewhat cheezy)
> > solution called ConquerCam ($10 with a free 30 day trial) which
worked
> > fine.
> >
> > 3d. The webcam photo updater script worked well, with
reservations.
> > My web server provided anonymous FTP access for stations uploading
> > photos. All stations were requested to use their call as a
password,
> > uploading files once per minute. This was taken to satisfy their
call

> > ID requirements. I wrote a small PERL script to transfer the
photos
> > to the web directory and to create a thumbnail image. The intent
was
> > to provide an index page to all the thumbnails, but this could
not be
> > completed before the event.
> >
> > As I could not make the previously mentioned webcam software stop
> > appending a number to the file extension, I had to run home (35
mi!!!)
> > in the middle of the event to modify the script to parse the
number
> > off those image files. Once I did this, those files uploaded
fine.
> >
> > Also, the APRS web page had to be updated with all of the APRS
ssids
> > during the event. The script provided for copying these files
into
> > the proper location. Because start/stop had their internet access
> > delayed, it appears that this never got done.
> >
> >
> >
> >
> >
> >
> > ---

> > *Yahoo! Groups Links*
> >
> > * To visit your group on the web, go to:
> > http://groups.yahoo.com/group/ntms-hsmm/
> >
> > * To unsubscribe from this group, send an email to:
> > ntms-hsmm-unsubscribe@yahoogroups.com
> > <mailto:ntms-hsmm-unsubscribe@yahoogroups.com?
subject=Unsubscribe>
> >
> > * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service <http://docs.yahoo.com/info/terms/>.
> >
> >

694. RE: [ntms-hsmm] 2.4gig fresnel question

Yahoo group: DAWG-HSMM
Date: 2005-05-24 04:24:23 UTC
From: Dave Anderson
Topic: 689 Message: 694

Years of experience with this and tons of installs under my belt with this, I'd say if it worked at all, it'd be problematic and have retries and CRC errors due to the multipath...

There are near line of site solutions that would work perfectly in this environment, but the radio's are the typical consumer grade stuff.

Seeya,
Dave
KG4YZY
www.aprsfl.net
www.fab-corp.com

>-----Original Message-----
>From: ntms-hsmm@yahoogroups.com
>[mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Wes Johnston
>Sent: Monday, May 23, 2005 8:04 PM
>To: ntms-hsmm@yahoogroups.com
>Subject: [ntms-hsmm] 2.4gig fresnel question
>
>
>I am trying to link a ham's house to a water tower 2.17km
>away. I climbed to the top of his tower and in the last
>5 feet of my climb, suddenly the water tower revealed
>itself to me thru the trees. About 1/3 of the way to the
>site, there is a tall pine tree which obscures a fair
>amount of the tower. I can see only about a 20' square
>patch of the tank (the tank is prob 50 feet diameter and
>20' tall.) Our plan is to put a parabolic dish on the
>hand rail of the tower, which I estimate 3' above the
>hand rail is where I start to see the tank. My question
>is this 20' square "hole" in the canopy enough to shoot
>thru? I'd hate to spend $90 or $100 on a pair of
>antennas only to find out it won't work.
>
>The link budget calcs from radio mobile say s9+10 with
>30mW, s9+20 with 250mW. 24dBi antennas at each end. Wes
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>
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>Yahoo! Groups Links
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695. RE: [ntms-hsmm] 05 Wild Ride - post event review

Yahoo group: DAWG-HSMM
Date: 2005-05-24 21:42:29 UTC
From: John Champa
Topic: 689 Message: 695

John,

Super! Please let me know, if we can help you in anyway with the publication of this. For example, I have a deadline coming up for our regular HSMM column in CQ VHF, and we could readily publish this as an e-mail from you, etc.

Thanks and 73,
John - K8OCL

>From: "J. Beadles" <jbeadles@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: ntms-hsmm@yahoogroups.com
>Subject: [ntms-hsmm] 05 Wild Ride - post event review
>Date: Mon, 23 May 2005 20:10:09 -0000
>

[Non-text portions of this message have been removed]

696. RE: [ntms-hsmm] 05 Wild Ride - post event review

Yahoo group: DAWG-HSMM
Date: 2005-05-25 02:28:25 UTC
From: jbeadles@pobox.com
Topic: 689 Message: 696

Sure thing! I actually have a full article in mind, though I'll work on filling out the report presentation in the next few days, and you should be able to draw from that as desired.

On 24 May 2005 at 17:42, John Champa wrote:

> John,
>
> Super! Please let me know, if we can help you in anyway with the
> publication of this. For example, I have a deadline coming up for our
> regular HSMM column in CQ VHF, and we could readily publish this as an
> e-mail from you, etc.
>
> Thanks and 73,
> John - K8OCL
>
> >From: "J. Beadles" <jbeadles@...>
> >Reply-To: ntms-hsmm@yahoogroups.com
> >To: ntms-hsmm@yahoogroups.com
> >Subject: [ntms-hsmm] 05 Wild Ride - post event review
> >Date: Mon, 23 May 2005 20:10:09 -0000
> >
>
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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697. WRT54G ham radio applications

Yahoo group: DAWG-HSMM
Date: 2005-06-06 20:17:57 UTC
From: wb8wka
Topic: 697 Message: 697

Not sure if this made it to the list already, but

http://db0fhn-i.ampr.org/wrt54gs/

has some Ham radio centric links for the WRT54, including a link on
how to move it below 2400mhz.

698. Re: [ntms-hsmm] WRT54G ham radio applications

Yahoo group: DAWG-HSMM
Date: 2005-06-06 20:38:25 UTC
From: Wolf Hoeller
Topic: 697 Message: 698

Am Montag, 6. Juni 2005 22:17 schrieb wb8wka:
> Not sure if this made it to the list already, but
>
> http://db0fhn-i.ampr.org/wrt54gs/
>
> has some Ham radio centric links for the WRT54, including a link on
> how to move it below 2400mhz.
>
Another link describes the application of a SD-cardreader in the WRT54G(S).
Who is the first, running a full featured BBS on the WRT itself?
Pimping the WRT is going on ;-)
--
Wolf, oe7ftj

699. Hamcom part 15 deployment

Yahoo group: DAWG-HSMM
Date: 2005-06-07 13:35:27 UTC
From: J. Beadles
Topic: 699 Message: 699

As programmming director for Hamcom, I'd like to say thank you to Bob Kmak, Eric Lester and the Directway folks for providing internet service to the Arlington Convention Center this last weekend. Directway provided a satellite internet feed and Bob and Eric strung wire and laid out the part15 802.11b network that was used by presenters, attendees and vendors alike.

Bob, when you have an opportunity, can you describe what all was involved?

700. Re: WRT54G ham radio applications

Yahoo group: DAWG-HSMM
Date: 2005-06-07 13:47:53 UTC
From: J. Beadles
Topic: 697 Message: 700

--- In ntms-hsmm@yahoogroups.com, Wolf Hoeller <nospam2wolf@i...>
wrote:
> Am Montag, 6. Juni 2005 22:17 schrieb wb8wka:
> > Not sure if this made it to the list already, but
> >
> > http://db0fhn-i.ampr.org/wrt54gs/
> >
> > has some Ham radio centric links for the WRT54, including a link
on
> > how to move it below 2400mhz.
> >
> Another link describes the application of a SD-cardreader in the
WRT54G(S).
> Who is the first, running a full featured BBS on the WRT itself?
> Pimping the WRT is going on ;-)
> --
> Wolf, oe7ftj

Yep! I'm intending to try this to see if it'll help with Bob Kmak's attempt to compile APRSD into a Sveasoft load. Speaking of which, if anybody on the list has experience compiling apps into Linux, please feel free to get involved and let us know what you are doing.

One of the other things I would like to see done is to see a telpac linux port. Telpac is a Packet to Telnet interface that is used for the VHF Packet version winlink. My county ARES org is adopting winlink, and a deployable package based on the WRT would result in a much cheaper deployable package. Problem is that the current developers are only doing Windows development. While they support the concept of doing a Linux port, they don't have time to do it. So I would encourage anybody interested to get involved.

Incidentally, John Hansen, the developer of the TNC-X, was here at Hamcom and we discussed the WRT54G / TNC-X combination. He really likes the idea, but is too busy to pursue the combination.

701. Re: [ntms-hsmm] Re: WRT54G ham radio applications

Yahoo group: DAWG-HSMM
Date: 2005-06-07 14:38:29 UTC
From: Bill Vodall
Topic: 697 Message: 701

> Yep! I'm intending to try this to see if it'll help with Bob Kmak's
> attempt to compile APRSD into a Sveasoft load. Speaking of which, if
> anybody on the list has experience compiling apps into Linux, please
> feel free to get involved and let us know what you are doing.

Soon. Very soon.

> One of the other things I would like to see done is to see a telpac
> linux port. Telpac is a Packet to Telnet interface that is used for

All done and it works great. Executable is all of 8k..

Check the link at http://nwp.ampr2.net/jnos/WinlinkWa

> Incidentally, John Hansen, the developer of the TNC-X, was here at
> Hamcom and we discussed the WRT54G / TNC-X combination. He really
> likes the idea, but is too busy to pursue the combination.

Soon. Very soon.

Bill - WA7NWP

702. Re: WRT54G ham radio applications

Yahoo group: DAWG-HSMM
Date: 2005-06-07 20:34:32 UTC
From: J. Beadles
Topic: 697 Message: 702

--- In ntms-hsmm@yahoogroups.com, Bill Vodall <wa7nwp@j...> wrote:
> > Yep! I'm intending to try this to see if it'll help with Bob
Kmak's
> > attempt to compile APRSD into a Sveasoft load. Speaking of
which, if
> > anybody on the list has experience compiling apps into Linux,
please
> > feel free to get involved and let us know what you are doing.
>
> Soon. Very soon.
>
> > One of the other things I would like to see done is to see a
telpac
> > linux port. Telpac is a Packet to Telnet interface that is used
for
>
> All done and it works great. Executable is all of 8k..
>
> Check the link at http://nwp.ampr2.net/jnos/WinlinkWa

Outstanding! I did a bit of research down this link and had a hard
time figuring out exactly where the downloads were. Found them a bit
more directly here:

http://db0lj.dyndns.org/pub/dl5di-soft/

Bob, this might be more worth your time than porting APRSD just now...

> > Incidentally, John Hansen, the developer of the TNC-X, was here
at
> > Hamcom and we discussed the WRT54G / TNC-X combination. He
really
> > likes the idea, but is too busy to pursue the combination.
>
> Soon. Very soon.

Oh, the suspense is killing me...

703. Re: Re: WRT54G ham radio applications

Yahoo group: DAWG-HSMM
Date: 2005-06-08 16:53:59 UTC
From: Chris Kantarjiev
Topic: 697 Message: 703

> > Check the link at http://nwp.ampr2.net/jnos/WinlinkWa
>
> Outstanding! I did a bit of research down this link and had a hard
> time figuring out exactly where the downloads were. Found them a bit
> more directly here:
>
> http://db0lj.dyndns.org/pub/dl5di-soft/

I have admit that neither of these links was enlightening to me. I have
a radio, battery, antenna and desire to build a telpac node
from a WRT54G ... I guess I should just buy one and try to figure it out.

73 de chris KG6VYD

704. Re: [ntms-hsmm] Re: Re: WRT54G ham radio applications

Yahoo group: DAWG-HSMM
Date: 2005-06-08 18:48:31 UTC
From: Bill Vodall WA7NWP
Topic: 697 Message: 704

> > http://db0lj.dyndns.org/pub/dl5di-soft/
>
> I have admit that neither of these links was enlightening to me. I have
> a radio, battery, antenna and desire to build a telpac node
> from a WRT54G ... I guess I should just buy one and try to figure it out.

Telpac_node runs on a Linux system with the AX25 packet drivers. Our goal is to get AX25 running on a WRT54G, then we'll probably be able to run telpac_node there. Until then it will require a standard Linux packet system to run telpac_node. We're probably months from seeing AX25 on a WRT54G unless somebody proves me wrong - which would be a good thing.

73,
Bill - WA7NWP

705. Re: [ntms-hsmm] Re: Re: WRT54G ham radio applications

Yahoo group: DAWG-HSMM
Date: 2005-06-13 20:08:29 UTC
From: Chris Kantarjiev
Topic: 697 Message: 705

> Telpac_node runs on a Linux system with the AX25 packet drivers. Our
> goal is to get AX25 running on a WRT54G, then we'll probably be able to
> run telpac_node there. Until then it will require a standard Linux packet
> system to run telpac_node. We're probably months from seeing AX25 on
> a WRT54G unless somebody proves me wrong - which would be a good thing.

Ah, now I get it. Is there not a KISS-mode port? I was thinking
that a TNC-X would be part of any WRT54G deployment, be it APRS or
Telpac.

73 de chris KG6VYD

706. Re: [ntms-hsmm] Re: Re: WRT54G ham radio applications

Yahoo group: DAWG-HSMM
Date: 2005-06-13 20:23:53 UTC
From: Bill Vodall - WA7NWP
Topic: 697 Message: 706

> > Telpac_node runs on a Linux system with the AX25 packet drivers. Our
> > goal is to get AX25 running on a WRT54G, then we'll probably be able to
> > run telpac_node there. Until then it will require a standard Linux packet
> > system to run telpac_node. We're probably months from seeing AX25 on
> > a WRT54G unless somebody proves me wrong - which would be a good thing.
>
> Ah, now I get it. Is there not a KISS-mode port? I was thinking
> that a TNC-X would be part of any WRT54G deployment, be it APRS or
> Telpac.

Some applications like Xastir, APRSD and JNOS have native KISS modes. The telpac_node package replies on the built in AX25 system. Probably wouldn't be terribly difficult to replace the ax25 hooks with a serial port but I think we'll be better off overall focusing on getting AX25 running on WRT54G(S). That will open the device up to many applications.

Bill - WA7NWP

707. Article: Wifi based positioning

Yahoo group: DAWG-HSMM
Date: 2005-06-21 13:45:28 UTC
From: J. Beadles
Topic: 707 Message: 707

This is a hoot:

http://news.zdnet.com/2100-1035_22-5754288.html?tag=nl.e539

708. Re: [ntms-hsmm] Article: Wifi based positioning

Yahoo group: DAWG-HSMM
Date: 2005-06-21 13:59:25 UTC
From: Wes Johnston
Topic: 707 Message: 708

I love it when journalists get it wrong...

"Also, some critics point out that Wi-Fi routers do not necessarily stay in one position forever like satellites or cell towers do. People often move and take their Wi-Fi routers with them."

I didn't know GPS satellites stayed in one place! lol.

I'm guessing this system is simply RSSI for each AP seen.... it maybe a good approximation, but I can't see it working better than GPS, even in the urban canyons. Perhaps deep inside a building or parking garage, but on the street, even in a city, no chance of working better than GPS.

Wes

J. Beadles wrote:

>This is a hoot:
>
>http://news.zdnet.com/2100-1035_22-5754288.html?tag=nl.e539
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>Yahoo! Groups Links
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709. Re: [ntms-hsmm] Article: Wifi based positioning

Yahoo group: DAWG-HSMM
Date: 2005-06-21 14:13:07 UTC
From: Pat "BUFF" Hykkonen
Topic: 707 Message: 709

Better than GPS?

Let's see. I get about 15-20ft error without differential corrections on my receivers once they've got all the almanacs, ephemerides and so forth.

If I can see the 35th bird that's in geosync and offering WAAS differential corrections I've seen my position error drop to 6-7ft!

Both of those are considerably better than the 20-40m that Skyhook is supposedly able to come up with.

OTOH, it would be interesting to build a location system using WiFi. Essentially one could theoretically build a mini-GPS system using three WiFi transmitters, figuring out the latency across the system and then writing some software to perform the trig operations to determine the location of a receiver. Although, now that I think of it a little bit, you'd probably need four transmitters if you wanted any kind of accuracy for altitude. But you could make three work for a flat-2d fix.

On Jun 21, 2005, at 8:59 AM, Wes Johnston wrote:

> I love it when journalists get it wrong...
>
> "Also, some critics point out that Wi-Fi routers do not necessarily
> stay
> in one position forever like satellites or cell towers do. People
> often
> move and take their Wi-Fi routers with them."
>
> I didn't know GPS satellites stayed in one place! lol.
>
> I'm guessing this system is simply RSSI for each AP seen.... it
> maybe a
> good approximation, but I can't see it working better than GPS,
> even in
> the urban canyons. Perhaps deep inside a building or parking garage,
> but on the street, even in a city, no chance of working better than
> GPS.
>
> Wes
>
> J. Beadles wrote:
>
>

>> This is a hoot:
>>
>> http://news.zdnet.com/2100-1035_22-5754288.html?tag=nl.e539
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>> Yahoo! Groups Links
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> Yahoo! Groups Links
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Pat Hykkonen
pat@...

710. RE: [ntms-hsmm] Article: Wifi based positioning

Yahoo group: DAWG-HSMM
Date: 2005-06-21 23:31:27 UTC
From: Frank Roesch
Topic: 707 Message: 710

I think this might be for Voice over IP and 911 locator services. One of the problems with rolling the VOIP product out was how do you find someone inside a building or someplace other then were you thought the phone was when you can't use a GPS satellite.

Just a thought.

Frank Roesch

[Non-text portions of this message have been removed]

711. Video Camera web server

Yahoo group: DAWG-HSMM
Date: 2005-07-02 22:46:32 UTC
From: J. Beadles
Topic: 711 Message: 711

For a non HSMM reason, I picked up a 9100A Network video server off ebay. This is a 4 port digitizer and web server, and can FTP images based on a motion trigger. The built in software is a little yucky, but it seems to work. They are available on eBay, but this one is cheaper at $99.

http://www.geeks.com/details.asp?invtid=BLK-9100A-PLUS-N&cat=NET

712. Re: [ntms-hsmm] Video Camera web server

Yahoo group: DAWG-HSMM
Date: 2005-07-03 12:46:48 UTC
From: signup
Topic: 711 Message: 712

So does this stream video or is it just a snapshot at various intervals? Couldn't tell for sure from the literature. Lee - K5UN ---------- Original Message ---------- From: "J. Beadles" Reply-To: ntms-hsmm@yahoogroups.com Date: Sat, 02 Jul 2005 22:46:32 -0000 > > > > >For a non HSMM reason, I picked up a 9100A Network video server off
>ebay. This is a 4 port digitizer and web server, and can FTP images
>based on a motion trigger. The built in software is a little yucky,
>but it seems to work. They are available on eBay, but this one is
>cheaper at $99.
>
>http://www.geeks.com/details.asp?invtid=BLK-9100A-PLUS-N&cat=NET
>
>
> > > > > > > > > > >
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> > YAHOO! GROUPS LINKS >
>
> >
- Visit your group "ntms-hsmm (http://groups.yahoo.com/group/ntms-hsmm)" on the web.
>
- To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com
>
- Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
(http://docs.yahoo.com/info/terms/). > >
>
> >
> > > > > > > > > _____ Sent via the WebMail system at mail.hf.org

713. Re: [ntms-hsmm] Video Camera web server

Yahoo group: DAWG-HSMM
Date: 2005-07-03 14:35:28 UTC
From: jbeadles@pobox.com
Topic: 711 Message: 713

It seems to have the ability to do both. It seems to work ok, but the software is really awkward, as if the developer doesn't know how to do consistant user interfaces. It has a built in web server that downloads a separate component that receives streaming images. The interface allows you to split the screen up to 16 ways, and allows you to add video sources from other cameras. The web interface allows you to set a number of image quality parameters, but as mentioned earlier, the interface is terribly inconsistant in operation. The web interface allows you to automatically save images and/or AVI files to the local hard drive. However, it seems that it can only save one of the images from one of the 4 video inputs at a time. Shoot! The saved images are timestamped, but the images themselves are not overlaid with timestamps. The image quality that comes from it is fine. The unit comes in a mode where it captures images every 60ms. This draws enough CPU that my old 133MHz PC was unable to spare cycles enough for me to interact with the web browser. The unit also comes with some PC client software that I haven't tried yet. It does require a 1024x768 display or it won't run. It does have a feature that allows you to FTP or email based on a motion trigger, but I haven't tried this yet. This should allow the device to operate in unattended mode. I've had it running this way for several all night and it is still running. I was able to get the system to lock up while fiddling with the controls and had to cycle my browser and the unit power. Conclusion - An imperfect box, but definitely the cheapest based on the functionality. There are others on the market, but the cheapest I've found runs about $400. The poorly written docs indicate that the unit runs on linux, and the interface has a place to upload new firmware. Therefore it does seem like this is fixable by some intrepid individual. On 3 Jul 2005 at 7:46, signup wrote: > > So does this stream video or is it just a snapshot at various intervals? Couldn't tell for sure from the literature. > > Lee - K5UN > > ---------- Original Message ---------- > From: "J. Beadles" > Reply-To: ntms-hsmm@yahoogroups.com > Date: Sat, 02 Jul 2005 22:46:32 -0000 > > > > > > > > > > >For a non HSMM reason, I picked up a 9100A Network video server off
> >ebay.? This is a 4 port digitizer and web server, and can FTP images
> >based on a motion trigger.? The built in software is a little yucky,
> >but it seems to work.? They are available on eBay, but this one is
> >cheaper at $99.
> >
> >http://www.geeks.com/details.asp?invtid=BLK-9100A-PLUS-N&cat=NET
> >
> >
> >
> >
> > > > YAHOO! GROUPS LINKS > >
> >
> > > >
- ?Visit your group "ntms-hsmm (http://groups.yahoo.com/group/ntms-hsmm)" on the web.
? > >
- ?To unsubscribe from this group, send an email to:
?ntms-hsmm-unsubscribe@yahoogroups.com
? > >

- ?Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service (http://docs.yahoo.com/info/terms/). > > > >
> >
> > > >
> >
____ > Sent via the WebMail system at mail.hf.org > > > > > > > > > Yahoo! Groups Links > > > > > >

714. RE: [ntms-hsmm] 05 Wild Ride - post event review

Yahoo group: DAWG-HSMM
Date: 2005-07-08 17:13:55 UTC
From: John Champa
Topic: 689 Message: 714

```
>From: "J. Beadles" <jbeadles@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: ntms-hsmm@yahoogroups.com
>Subject: [ntms-hsmm] 05 Wild Ride - post event review
>Date: Mon, 23 May 2005 20:10:09 -0000
>

John,

Are you going to use this? If not, I would like to consider it for my next
CQ-VHF column on HSMM.

Thanks,
John - K8OCL

[Non-text portions of this message have been removed]
```

715. RE: [ntms-hsmm] 05 Wild Ride - post event review

Yahoo group: DAWG-HSMM
Date: 2005-07-09 05:30:06 UTC
From: jbeadles@pobox.com
Topic: 689 Message: 715

Howdy John!

My intent is to do a full, detailed article, but have no objections
if you want to use that writeup for discussion. I need to send you
the incomplete wrapup presentation, you can draw pics from that as
you like. That's on my laptop, though.

On 8 Jul 2005 at 13:13, John Champa wrote:

>
> >From: "J. Beadles" <jbeadles@...>
> >Reply-To: ntms-hsmm@yahoogroups.com
> >To: ntms-hsmm@yahoogroups.com
> >Subject: [ntms-hsmm] 05 Wild Ride - post event review
> >Date: Mon, 23 May 2005 20:10:09 -0000
> >
>
>
> John,
>
> Are you going to use this? If not, I would like to consider it for my next
> CQ-VHF column on HSMM.
>
> Thanks,
> John - K8OCL
>
>
>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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>

716. July NTMS Meeting on Saturday July 23rd

Yahoo group: DAWG-HSMM
Date: 2005-07-14 01:08:30 UTC
From: Bob and Debbie Kmak
Topic: 716 Message: 716

Guys,

Please join us for the July NTMS meeting. See below for driving directions.
Here are the details:

NTMS Meeting Saturday, July 23rd, 2005

Room 418 of the Union Building, University of North Texas campus.
Flea market & chat starts at noon, official meeting at 1 PM

The agenda:

"The 2005 ARRL VHF QSO Party", by Eric Silverthorn, NM5M

"Report on the 2005 Society of Amateur Radio Astronomer's Conference", by Al Ward, W5LUA

"Benefits of Increased Dish Antenna Heights for Microwave Rovers", by Kent Britain, WA5VJB

"Providing Wireless Internet Access at HamCom 2005", by Bob Kmak, K5WO

Directions to UNT

From Dallas:

North on I-35E to Denton

Exit North Texas Blvd, turn right at light

Travel two blocks, turn right on Eagle Drive

Travel approx. ½ mile, turn left on Welsh St.

Travel three blocks, turn left on W Prairie St. (one way street)

Take first left into parking lot

W Prairie St., Avenue A and W Chestnut St form a square

The Union Building is on Avenue A.

Meeting in Room 418 of the Union Building, on the fourth floor.

From Ft. Worth:

North on I-35W to Denton

Exit W. Airport Rd (FM1515), S. Bonnie Brae, not sure how exit is marked

Turn right and proceed to the I-35E service road, turn right (towards Dallas)

Travel to North Texas Blvd, turn left, crossing over I-35E

Travel two blocks, turn right on Eagle Drive

Travel approx. ½ mile, turn left on Welsh St.

Travel three blocks, turn left on W Prairie St. (one way street)

Take first left into parking lot

W Prairie St., Avenue A and W Chestnut St form a square

The Union Building is on Avenue A.

Meeting in Room 418 of the Union Building, on the fourth floor.

73 and see you there!

Bob, K5WO
NTMS Vice President

[Non-text portions of this message have been removed]

717. Reminder: July NTMS Meeting Tomorrow

Yahoo group: DAWG-HSMM
Date: 2005-07-22 11:24:48 UTC
From: Bob and Debbie Kmak
Topic: 717 Message: 717

Guys,

Please join us for the July NTMS meeting. See below for driving directions.
Here are the details:

NTMS Meeting Saturday, July 23rd, 2005

Room 418 of the Union Building, University of North Texas campus.
Flea market & chat starts at noon, official meeting at 1 PM

The agenda:

"The 2005 ARRL VHF QSO Party", by Eric Silverthorn, NM5M

"Report on the 2005 Society of Amateur Radio Astronomer's Conference", by Al Ward, W5LUA

"Benefits of Increased Dish Antenna Heights for Microwave Rovers", by Kent Britain, WA5VJB

"Providing Wireless Internet Access at HamCom 2005", by Bob Kmak, K5WO

Directions to UNT

From Dallas:

North on I-35E to Denton

Exit North Texas Blvd, turn right at light

Travel two blocks, turn right on Eagle Drive

Travel approx. ½ mile, turn left on Welsh St.

Travel three blocks, turn left on W Prairie St. (one way street)

Take first left into parking lot

W Prairie St., Avenue A and W Chestnut St form a square

The Union Building is on Avenue A.

Meeting in Room 418 of the Union Building, on the fourth floor.

From Ft. Worth:

North on I-35W to Denton

Exit W. Airport Rd (FM1515), S. Bonnie Brae, not sure how exit is marked

Turn right and proceed to the I-35E service road, turn right (towards Dallas)

Travel to North Texas Blvd, turn left, crossing over I-35E

Travel two blocks, turn right on Eagle Drive

Travel approx. ½ mile, turn left on Welsh St.

Travel three blocks, turn left on W Prairie St. (one way street)

Take first left into parking lot

W Prairie St., Avenue A and W Chestnut St form a square

The Union Building is on Avenue A.

Meeting in Room 418 of the Union Building, on the fourth floor.

73 and see you there!

Bob, K5WO
NTMS Vice President

[Non-text portions of this message have been removed]

718. (Fwd) [Ham-80211] Defcon WiFi Shootout Record Set at 125 Miles

Yahoo group: DAWG-HSMM
Date: 2005-07-31 14:34:06 UTC
From: jbeadles@pobox.com
Topic: 718 Message: 718

------- Forwarded message follows -------

[Double-click this line for list subscription options]

All day yesterday and through the night Team PAD (http://www.wifiworldrecord.com) braved rain, lightning and winds over 30 mph to setup and test their equipment at their mountian top base outside of Las Vegas, Nevada.

Today at 11am they successfully made a 125 mile link using 802.11b and ran network applications with their remote team in the mountains West of St. George, Utah. Link built using Part 97 rules.

More to follow, including photos, video and hardware details.

Thank you

Frank Keeney
Pasadena Networks, LLC
Antennas, Cables and Equipment:
http://www.wlanparts.com

_____
ham-80211 mailing list
ham-80211@...
https://lists.tapr.org/cgi-bin/mailman/listinfo/ham-80211
------- End of forwarded message -------

719. Re: [ntms-hsmm] (Fwd) [Ham-80211] Defcon WiFi Shootout Record Set at 125 Miles

Yahoo group: DAWG-HSMM
Date: 2005-08-01 22:24:54 UTC
From: W Miller K2CHP
Topic: 718 Message: 719

Always wondered what I was gonna do with my dormant
7.5' and 10' C band dishes :-)

720. Re: [ntms-hsmm] (Fwd) [Ham-80211] Defcon WiFi Shootout Record Set at 125 Miles

Yahoo group: DAWG-HSMM
Date: 2005-08-02 02:02:42 UTC
From: Walt DuBose
Topic: 718 Message: 720

They had to tweak the timing otherwise they wouldn't get 11 MB throughput.

Walt/K5YFW

jbeadles@... wrote:
>
> ------- Forwarded message follows -------
>
> [Double-click this line for list subscription options]
>
>
> All day yesterday and through the night Team PAD
> (http://www.wifiworldrecord.com) braved rain, lightning and winds over 30
> mph to setup and test their equipment at their mountian top base outside of
> Las Vegas, Nevada.
>
> Today at 11am they successfully made a 125 mile link using 802.11b and ran
> network applications with their remote team in the mountains West of St.
> George, Utah. Link built using Part 97 rules.
>
> More to follow, including photos, video and hardware details.
>
> Thank you
>
> Frank Keeney
> Pasadena Networks, LLC
> Antennas, Cables and Equipment:
> http://www.wlanparts.com
>
>
> _____
> ham-80211 mailing list
> ham-80211@...
> https://lists.tapr.org/cgi-bin/mailman/listinfo/ham-80211
> ------- End of forwarded message -------
>
> YAHOO! GROUPS LINKS
>
> * Visit your group "ntms-hsmm
> <http://groups.yahoo.com/group/ntms-hsmm>" on the web.
>
> * To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
> <mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>

>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
>

721. RE: [ntms-hsmm] (Fwd) [Ham-80211] Defcon WiFi Shootout Record Set at 125 Miles

Yahoo group: DAWG-HSMM
Date: 2005-08-02 02:32:42 UTC
From: Dave Anderson
Topic: 718 Message: 721

>They had to tweak the timing otherwise they wouldn't get
>11 MB throughput.

Walt,

Indeed, and I don't even know of any enterprise grade gear that allows the timing variables to be tweaked for that much of a distance, so it had to be hacked firmware.

I don't think they hit 11mb, they probably went with 1mb/sec to get the higher receiver sensitivity.

Seeya,
Dave
KG4YZY

722. RE: [ntms-hsmm] (Fwd) [Ham-80211] Defcon WiFi Shootout Record Set at 125 Miles

Yahoo group: DAWG-HSMM
Date: 2005-08-02 02:36:23 UTC
From: Daron J. Wilson
Topic: 718 Message: 722

I'd be very surprised if they actually got anywhere near 11 mbs thoughput no matter what you do to the timing. I figure by the time you delay things enough to get around the constant retries, you would be lucky to get half the throughput. Just my hunch. At any rate, that is one heck of a hop, makes my 18.5 mile hop to the repeater site look like a walk in the park.

73 N7HQR

www.ocrg.org

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Walt DuBose
Sent: Monday, August 01, 2005 7:03 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] (Fwd) [Ham-80211] Defcon WiFi Shootout Record Set at 125 Miles

They had to tweak the timing otherwise they wouldn't get 11 MB throughput.

Walt/K5YFW

jbeadles@... wrote:
>
> ------- Forwarded message follows -------
>
> [Double-click this line for list subscription options]
>
>
> All day yesterday and through the night Team PAD
> (http://www.wifiworldrecord.com) braved rain, lightning and winds over 30
> mph to setup and test their equipment at their mountian top base outside of
> Las Vegas, Nevada.
>
> Today at 11am they successfully made a 125 mile link using 802.11b and ran
> network applications with their remote team in the mountains West of St.
> George, Utah. Link built using Part 97 rules.
>
> More to follow, including photos, video and hardware details.
>
> Thank you
>
> Frank Keeney

> Pasadena Networks, LLC
> Antennas, Cables and Equipment:
> http://www.wlanparts.com
>
>
> _____
> ham-80211 mailing list
> ham-80211@...
> https://lists.tapr.org/cgi-bin/mailman/listinfo/ham-80211
> ------- End of forwarded message -------
>
> YAHOO! GROUPS LINKS
>
> * Visit your group "ntms-hsmm
> <http://groups.yahoo.com/group/ntms-hsmm>" on the web.
>
> * To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
> <mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
>

YAHOO! GROUPS LINKS

* Visit your group "ntms-hsmm
<http://groups.yahoo.com/group/ntms-hsmm> " on the web.

* To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com
<mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

723. Re: Defcon WiFi Shootout Record Set at 125 Miles

Yahoo group: DAWG-HSMM
Date: 2005-08-02 03:44:12 UTC
From: Thorsten von Eicken
Topic: 723 Message: 723

Obviously there are a lot of N-th party accounts floating around...
However, it may well be that they were able to get packets at the 11
Mbps phy rate through. That's very, very different from getting 11 Mbps
of data throughput! Over those distances, if I got my math right, you
can't get more data throughput than about 25%-30% of the raw bit rate.
In terms of "tweaking the timing", all they really need to do is change
the ACK timeout. The madwifi Atheros driver allows that to be done very
easily, however, at least for the Atheros chip sets I'm using you can't
set the timeout large enough for these distances. I'm running a 32 mile
link and I'm at 95% of the max for 11g mode and I don't believe that the
11b max is 3x higer.
Thorsten

Daron J. Wilson wrote:
> I'd be very surprised if they actually got anywhere near 11 mbs thoughput no
> matter what you do to the timing. I figure by the time you delay things
> enough to get around the constant retries, you would be lucky to get half
> the throughput. Just my hunch. At any rate, that is one heck of a hop,
> makes my 18.5 mile hop to the repeater site look like a walk in the park.
>
>
>
> 73 N7HQR
>
>
>
> www.ocrg.org
>
>
>
> -----
>
> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
> Of Walt DuBose
> Sent: Monday, August 01, 2005 7:03 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: Re: [ntms-hsmm] (Fwd) [Ham-80211] Defcon WiFi Shootout Record Set
> at 125 Miles
>
>
>
> They had to tweak the timing otherwise they wouldn't get 11 MB throughput.
>
> Walt/K5YFW
>

> jbeadles@... wrote:
> >
> > ------- Forwarded message follows -------
> >
> > [Double-click this line for list subscription options]
> >
> >
> > All day yesterday and through the night Team PAD
> > (http://www.wifiworldrecord.com) braved rain, lightning and winds over 30
> > mph to setup and test their equipment at their mountian top base outside
> of
> > Las Vegas, Nevada.
> >
> > Today at 11am they successfully made a 125 mile link using 802.11b
> and ran
> > network applications with their remote team in the mountains West of St.
> > George, Utah. Link built using Part 97 rules.
> >
> > More to follow, including photos, video and hardware details.
> >
> > Thank you
> >
> > Frank Keeney
> > Pasadena Networks, LLC
> > Antennas, Cables and Equipment:
> > http://www.wlanparts.com
> >
> >
> > _____
> > ham-80211 mailing list
> > ham-80211@...
> > https://lists.tapr.org/cgi-bin/mailman/listinfo/ham-80211
> > ------- End of forwarded message -------
> >
> > YAHOO! GROUPS LINKS
> >
> > * Visit your group "ntms-hsmm
> > <http://groups.yahoo.com/group/ntms-hsmm>" on the web.
> >
> > * To unsubscribe from this group, send an email to:
> > ntms-hsmm-unsubscribe@yahoogroups.com
> > <mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> >
> > * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service <http://docs.yahoo.com/info/terms/>.
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> YAHOO! GROUPS LINKS
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>
>
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> * Your use of Yahoo! Groups is subject to the Yahoo!
> <http://docs.yahoo.com/info/terms/> Terms of Service.
>
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> _____
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>
> [Non-text portions of this message have been removed]
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>
> ---
> YAHOO! GROUPS LINKS
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> * Visit your group "ntms-hsmm
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>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
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724. Link: WiFI speed spray

Yahoo group: DAWG-HSMM
Date: 2005-08-11 15:00:22 UTC
From: J. Beadles
Topic: 724 Message: 724

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=5791782530

725. Re: [ntms-hsmm] Link: WiFI speed spray

Yahoo group: DAWG-HSMM
Date: 2005-08-11 15:04:31 UTC
From: Wes Johnston
Topic: 724 Message: 725

Wow, I've been looking for that stuff! Thanks for the link! The last bottle I had cost me over $25. Of course that bottle was a caramel colored liquid, and said "southern comfort" on the label... but it did make my internet seem to run faster.

Wes

J. Beadles wrote:
> http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=5791782530
>
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> Yahoo! Groups Links
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726. Re: [ntms-hsmm] Link: WiFI speed spray

Yahoo group: DAWG-HSMM
Date: 2005-08-12 03:49:33 UTC
From: jbeadles@pobox.com
Topic: 724 Message: 726

Oops, I may have given away your competitive advantage. Good trick, disguising your Wifi speed spray as Southern Comfort! :-)

On 11 Aug 2005 at 11:04, Wes Johnston wrote:

> Wow, I've been looking for that stuff! Thanks for the link! The last
> bottle I had cost me over $25. Of course that bottle was a caramel
> colored liquid, and said "southern comfort" on the label... but it did
> make my internet seem to run faster.
>
> Wes
>
> J. Beadles wrote:
> > http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=5791782530
> >
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> > Yahoo! Groups Links
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> Yahoo! Groups Links
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727. Re: [ntms-hsmm] Link: WiFI speed spray

Yahoo group: DAWG-HSMM
Date: 2005-08-13 01:44:12 UTC
From: Walt DuBose
Topic: 724 Message: 727

I saw John pay $10 for a bottle at the Austin SummerFest. I asked the vendor why so much and he said that John really wanted a bottle.

I offered him $2 and the took my money and gave me a bottle.

This stuff is going fast.

Walt/KN5YFW

Wes Johnston wrote:
> Wow, I've been looking for that stuff! Thanks for the link! The last
> bottle I had cost me over $25. Of course that bottle was a caramel
> colored liquid, and said "southern comfort" on the label... but it did
> make my internet seem to run faster.
>
> Wes
>
> J. Beadles wrote:
> > http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=5791782530
> <http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=5791782530>
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> > Yahoo! Groups Links
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> SPONSORED LINKS
> High speed wireless
> <http://groups.yahoo.com/gads?t=ms&k=High+speed+wireless&w1=High+speed+wireless&w2=High+speed&w3=Communication+and+networking&c=3&s=75&.sig=w_tmFs7T36KTtum7p5FHyA>
> High speed
> <http://groups.yahoo.com/gads?t=ms&k=High+speed&w1=High+speed+wireless&w2=High+speed&w3=Communication+and+networking&c=3&s=75&.sig=7_i_gY_78KW3fKELqYxWLA>
> Communication and networking
> <http://groups.yahoo.com/gads?t=ms&k=Communication+and+networking&w1=High+speed+wireless

&w2=High+speed&w3=Communication+and+networking&c=3&s=75&.sig=CQui9_0zuM_TN55noMAGIA>
>
>
>
> YAHOO! GROUPS LINKS
>
> * Visit your group "ntms-hsmm
> <http://groups.yahoo.com/group/ntms-hsmm>" on the web.
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> * To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
> <mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
>

728. old, big dish

Yahoo group: DAWG-HSMM
Date: 2005-08-15 03:17:29 UTC
From: Dave Dunbar
Topic: 728 Message: 728

A friend has one of those old TV satellite dishes -- back when they were *big* -- and is about ready to get rid of it. Is there any use for them, or any demand for them, in this area (Collin County, TX)? He'll give it away, he just needs it hauled off.

I saw the 125-mile article (prev. msg.), and noticed they had a fairly
large dish, so wasn't sure if my friend should just junk it or if someone wanted it. If I don't hear something in a week, I'll assume it is worthless and unwanted.

Thanks & 73,
Dave N0RQ

729. Karlnet 2.4GHz

Yahoo group: DAWG-HSMM
Date: 2005-08-15 03:28:17 UTC
From: Dave Dunbar
Topic: 729 Message: 729

I used to have DFWAIR.net as my ISP here in Melissa, using 2.4GHz 802.11. Since DSL came to my area, I discontinued wireless service and now have no use for the equipment.

They told me that my board type is a KN100 by KarlNet. The radio is in the antenna box, with POE running it, and a small box inside, which
my router plugged in to. The doc is at:
http://www.karlnet.com/Documents/DocumentsManuals.htm

I'd like to get rid of it, as I have no use for it. I wondered if it would be at all useful from an amateur HSMM perspective, and if so, a ballpark value. (I paid $300 it originally from DFWAIR.net.) Or if it not much use for HSMM, then any good ideas on how to sell it (ebay or ?) would be appreciated.

Thanks & 73,
Dave N0RQ

730. RE: [ntms-hsmm] Digest Number 222

Yahoo group: DAWG-HSMM
Date: 2005-08-15 15:07:51 UTC
From: Randall Dunning
Topic: 730 Message: 730

Speed spray, eh? I suspect it contains a time honored secret ingredient that has been in a long and extinguished line of products hawked and sold since the days of the old west. I think those old timers used to call it "snake oil".

RD

"TOP SECRET, DESTROY BEFORE READING"
A Favorite Security Caveat

731. 05 Plano Balloon Festival - HSMM activities

Yahoo group: DAWG-HSMM
Date: 2005-08-18 23:51:14 UTC
From: J. Beadles
Topic: 731 Message: 731

All,

APRS conversant Volunteers are needed to work the Plano Balloon Festival. The Festival will be held on September 16, 17 and 18. The event will run for all three days, with each day requiring three shifts.

The event will have two launches per day, one in the morning and one in the evening. Approximately 12 volunteers (resource type S) will be needed on the balloon launch field for each flight. More than 40 vehicle mobile teams (Resource type M) of at least 2 persons are needed each flight for balloon recovery. Volunteers should expect to be on site at the following times:

Morning Launch - from 6:30 a.m. to 10 a.m.

Afternoon talk-in - from 10 a.m. to 4 p.m.

Evening launch - from 4:00 p.m. to 8 p.m.

We provide public safety communications during the event, and balloon tracking safety service during the launches. We actually track the balloons from the time the launch until they are found by their chase crews to ensure that everybody is recovered safely.

For this event, I am requesting volunteers for the following HSMM activities:

1. Launch field coverage

We need to bring in wireless internet to the launch field so that we have access to real time weather data. I can forsee two hops into the park, one into the field ops / festival command area, and another into the pilot briefing area.

2. Refuelling coverage

I would like to have internet coverage and a webcam at the refuelling area so we can do digital data collection of the balloon crews.

3. Hotel

The balloon crews stay at the Southfork Hotel in Plano. Keith KE0FV indicates that the hotel has installed Wifi over the hotel rooms, but not in the conference center where the pilots briefing is. We belive that a wired connection can be run to that area, but we will need to provide an access point or two. This is Keith's action item.

732. Re: [ntms-hsmm] 05 Plano Balloon Festival - HSMM activities

Yahoo group: DAWG-HSMM
Date: 2005-08-19 15:10:30 UTC
From: Douglas Kilgore
Topic: 731 Message: 732

J. Beadles wrote:

>All,
>
>APRS conversant Volunteers are needed to work the Plano Balloon
>Festival. The Festival will be held on September 16, 17 and 18. The
>event will run for all three days, with each day requiring three
>shifts.
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>The event will have two launches per day, one in the morning and one
>in the evening. Approximately 12 volunteers (resource type S) will be
>needed on the balloon launch field for each flight. More than 40
>vehicle mobile teams (Resource type M) of at least 2 persons are
>needed each flight for balloon recovery. Volunteers should expect to
>be on site at the following times:
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>tracking safety service during the launches. We actually track the
>balloons from the time the launch until they are found by their chase
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>For this event, I am requesting volunteers for the following HSMM
>activities:
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>have access to real time weather data. I can forsee two hops into
>the park, one into the field ops / festival command area, and another
>into the pilot briefing area.
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>
My 14 dbi Rootenna with a Senao CB3+ Deluxe Client/Bridge using
Power-over-Ethernet will work just fine.for the pilot briefing area. I
can provide a CAT-5 cable to be hooked into the director's computer.

>2. Refuelling coverage
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>I would like to have internet coverage and a webcam at the refuelling
>area so we can do digital data collection of the balloon crews.
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I have a D-Link 900 IP camera that can act as a server. It does OK for
pictures in bright light but it won't work in darkness. Subjects would
need to be placed within about 10 ft or closer. Internet connection and
capture software would need to be worked out.

>3. Hotel
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>
I have several Linksys BEFW11S4 units with amplifiers. We need to
make sure we can place the access points high up in the rooms to get
coverage. Also 110VAC is needed for power.

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>Yahoo! Groups Links
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733. Re: 05 Plano Balloon Festival - HSMM activities

Yahoo group: DAWG-HSMM
Date: 2005-08-19 16:38:27 UTC
From: J. Beadles
Topic: 731 Message: 733

Thanks Doug! Can you take that hop from the demo house into the south end of the launch field again?

Also, I got ahold of Gene Losey at UDS, and he's happy to give us a feed into refuelling. I'm heading over to the Bank of America bldg to get some contact names, see if they'll let us borrow their roof for a couple of weeks.

--- In ntms-hsmm@yahoogroups.com, Douglas Kilgore
<douglas.kilgore@c...> wrote:
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> J. Beadles wrote:
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> >All,
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> >event will run for all three days, with each day requiring three
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> >The event will have two launches per day, one in the morning and
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> >We provide public safety communications during the event, and
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> >balloons from the time the launch until they are found by their
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> >For this event, I am requesting volunteers for the following HSMM
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> My 14 dbi Rootenna with a Senao CB3+ Deluxe Client/Bridge using
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> >I would like to have internet coverage and a webcam at the
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> I have a D-Link 900 IP camera that can act as a server. It does OK
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> pictures in bright light but it won't work in darkness. Subjects
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> capture software would need to be worked out.
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734. Re: [ntms-hsmm] Re: 05 Plano Balloon Festival - HSMM activities

Yahoo group: DAWG-HSMM
Date: 2005-08-19 16:56:34 UTC
From: Keith Berry
Topic: 731 Message: 734

If that doesn't work, I have a friend who is head of
safety at DART and can probably get us a spot on the
Parker Station DART terminal. (A LOT closer!!)

Keith

--- "J. Beadles" <jbeadles@...> wrote:

Thanks Doug! Can you take that hop from the demo
house into the
south end of the launch field again?

Also, I got ahold of Gene Losey at UDS, and he's happy
to give us a
feed into refuelling. I'm heading over to the Bank of
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735. Re: [ntms-hsmm] Re: 05 Plano Balloon Festival - HSMM activities

Yahoo group: DAWG-HSMM
Date: 2005-08-19 17:01:01 UTC
From: Keith Berry
Topic: 731 Message: 735

BTW, he is 'balloon friendly' as he is a crew chief
and editor of our balloon club newsletter.

Keith

--- Keith Berry <berryko@...> wrote:

If that doesn't work, I have a friend who is head of
safety at DART and can probably get us a spot on the
Parker Station DART terminal. (A LOT closer!!)

Keith

--- "J. Beadles" <jbeadles@...> wrote:

Thanks Doug! Can you take that hop from the demo
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736. wifi from airplane

Yahoo group: DAWG-HSMM
Date: 2005-08-26 18:27:04 UTC
From: kd4rdb
Topic: 736 Message: 736

Does any one have any experience here?

I have not been able to test this YET, but I have two ideas.

1) I have a 15dB cushcraft yagi that I will mount to a tripod inside a small plane aimed sideways out the rear side window. The plane can turn about a point on the ground (ie the other end of the wifi link) and if that station uses an omni antenna, we'll be able to maintain contact from within the plane. The question here is how far? I'd love to see about a 2 to 5 mile radius here. The power level is 200mW.

2) The owner of the plane has expressed an interest in installing a NMO mount under or above the plane. Another ham has recommended he mount the NMO on the top, I think on the bottom. The bottom will not give us as much clearance, and there is the possibility of striking debris when landing. I worry that mounting the antenna on the top will cast a "shadow" over the intended coverage area - but it is definitely the preferred place. The other guy is acustomed to trying to reach the visual horizon for 2m radio contacts, and I don't expect my wifi to go that far. Can anyone offer any input on this?

also, does anyone know of a source for a 5 to 7 db mobile wifi antenna that is NMO?

Wes

737. Re: [ntms-hsmm] wifi from airplane

Yahoo group: DAWG-HSMM
Date: 2005-08-26 21:20:49 UTC
From: Thorsten von Eicken
Topic: 736 Message: 737

kd4rdb wrote:

> 1) I have a 15dB cushcraft yagi that I will mount to a tripod inside a
> small plane aimed sideways out the rear side window. The plane can
> turn about a point on the ground (ie the other end of the wifi link)
> and if that station uses an omni antenna, we'll be able to maintain
> contact from within the plane. The question here is how far? I'd love
> to see about a 2 to 5 mile radius here. The power level is 200mW.

Sounds like fun :-) Wouldn't a 14dBi panel type be easier to deal with?
I believe a 15dBi Yagi is ~20" long. With a panel you could hold it
right against any window.

> 2) The owner of the plane has expressed an interest in installing a
> NMO mount under or above the plane. Another ham has recommended he
> mount the NMO on the top, I think on the bottom. The bottom will not
> give us as much clearance, and there is the possibility of striking
> debris when landing. I worry that mounting the antenna on the top will
> cast a "shadow" over the intended coverage area - but it is definitely
> the preferred place. The other guy is acustomed to trying to reach
> the visual horizon for 2m radio contacts, and I don't expect my wifi
> to go that far. Can anyone offer any input on this?

I don't think an omni on the ground is a good idea. They give 360
degrees coverage in the horizontal plane, but only a few degrees
vertical (how much depends on the gain). I believe you'd be much better
off with something like a 9dBi panel pointing upwards roughly in
aircraft direction. I'd also mount a panel on the aircraft, could be
flush with the bottom, no?

Let's see, if you use something like a CM-9 radio you'd have 18-19dBm TX
& 9dBi gain on one end and -91dBm RX & 15dBi gain on the other end. Off
the top of my head I would expect 10-15dB noise margin at the base 1Mbps
rate out to 4-6 miles. Check out one of the online calculators for a
much better approximation, but if the calculator gives you at least
12dBi margin you stand a chance of associating and getting some traffic
through, at least that would be my guess...

Oh, and if you go over a couple of miles be sure to figure out how to
tweak the RTT timeout in the wireless cards so you don't end up with
endless retransmissions...

Thorsten

738. Re: [ntms-hsmm] wifi from airplane

Yahoo group: DAWG-HSMM
Date: 2005-08-26 21:32:02 UTC
From: Douglas Kilgore
Topic: 736 Message: 738

Pay particular attention to the beamwidth patterns of both antennas. The CushCraft that you mention has about a 30 degree cone off the end. I assume you will be using vertical polarization. What pattern does the ground antenna have?

Beause of the radiation patterns, I think if you use an omni it should be mounted on the underside of the airplane.

It would be an interesting experiment to have a SECOND access point in the plane with an omni directional antenna under the airplane operating on a second channel. Connecting the two together would make a WiFi repeater in the air.

I have read some accounts of Net Stumbling from airplanes. I Googled on "net stumbler flight" and came up with come interesting results.

Good luck. Let us hear about the results.

Doug Kilgore KD5OUG

http://www.seattlewireless.net/index.cgi/FieldDayFlying

http://arstechnica.com/articles/culture/warflying.ars/2

http://www.3nw.com/pda/wireless/802_11b/warflying.htm

Net Stumbler
http://www.pcworld.com/news/article/0,aid,104600,00.asp

kd4rdb wrote:

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>I have not been able to test this YET, but I have two ideas.
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>1) I have a 15dB cushcraft yagi that I will mount to a tripod inside a
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>contact from within the plane. The question here is how far? I'd love
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>2) The owner of the plane has expressed an interest in installing a
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739. Re: [ntms-hsmm] wifi from airplane

Yahoo group: DAWG-HSMM
Date: 2005-08-26 22:16:32 UTC
From: Wes Johnston
Topic: 736 Message: 739

The patch antenna is a good idea, I'll have to see what the dimensions of the rear window in the plane is.

Although I see it will help the link tremendously to have a directional antenna on the ground, it's probably impractical to keep it rotating all the time.... hold on... If we had a wireless AP that we pointed up at a 30 degree angle and mounted to a azimuth only rotator... and we supplied a battery to it that would run it for some number of hours, I could rotate the whole thing around and around with no wires to tangle. Access to the hub would be via 2.4Gig in the near field for all the laptops. With APRS on the plane, we'd know where to point the antenna.

Thanks for the suggestions... we'll see what (who) else comes out of the wood work.
Wes

Thorsten von Eicken wrote:
> kd4rdb wrote:
>
>
>>1) I have a 15dB cushcraft yagi that I will mount to a tripod inside a
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> vertical (how much depends on the gain). I believe you'd be much better
> off with something like a 9dBi panel pointing upwards roughly in
> aircraft direction. I'd also mount a panel on the aircraft, could be
> flush with the bottom, no?
>
> Let's see, if you use something like a CM-9 radio you'd have 18-19dBm TX
> & 9dBi gain on one end and -91dBm RX & 15dBi gain on the other end. Off
> the top of my head I would expect 10-15dB noise margin at the base 1Mbps
> rate out to 4-6 miles. Check out one of the online calculators for a
> much better approximation, but if the calculator gives you at least
> 12dBi margin you stand a chance of associating and getting some traffic
> through, at least that would be my guess...
>
> Oh, and if you go over a couple of miles be sure to figure out how to
> tweak the RTT timeout in the wireless cards so you don't end up with
> endless retransmissions...
>
> Thorsten
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> Yahoo! Groups Links
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740. Hurricane Katrina recovery efforts

Yahoo group: DAWG-HSMM
Date: 2005-09-02 17:04:14 UTC
From: J. Beadles
Topic: 740 Message: 740

All,

If you've been getting information from your local emergency coordinators or your ECs, you will know that there are amateur operators intensely involved in handling emergency response traffic related to Hurricane Katrina. The call for additional volunteers to supplement this effort has thus far been limited.

What we're seeing now is that refugees from the gulf coast area are being relocated to cities throughout Texas. Some are arriving in the Dallas - Ft. Worth area. There is a possibility that we might be activated to provide health & welfare traffic in facilities where immediately available mass communications do not exist.

There is a potential opportunity for operators to set up HSMM networks in such facilities, using bridged links where necessary. Everybody might want to stay aware of the situation and be prepared to offer HSMM installations where appropriate. If you are so prepared, you may want to make sure your county RACES or ARES coordinator knows you have that ability.

Obviously don't go overboard, but remember that high speed networking is another tool in our communications toolbox, and should be used where appropriate.

741. Re: [ntms-hsmm] Hurricane Katrina recovery efforts

Yahoo group: DAWG-HSMM
Date: 2005-09-04 17:00:28 UTC
From: Richard Hudgins
Topic: 740 Message: 741

I would like to comment on this issue. I have been running Redcross traffic from the shelters in Orange Texas for the last week, and the greatest issue that I feel is the lack of internet connectivity at these shelters for the 'guests' we are not equiped in this area for anything like that. Some of the shelters have internet but it is not readly availabe to our friends from La. The redcross has stoped us from handleling any health and wellfare traffic across the local two meter nets and these folks are desperate to find family members. We have just gotten setup in the local shelters for that by a gift from Walmart of computers but some of them do not have internet connectivity so I dont know how that will work. For the future a deployable hight speed data link and computer network would ease some of these problems. The issue is working itself out now but it has been a week since we started this effort and thats a long time to wait for information on family. No equipment please, but lets put our heads together and develop a rapid deployment scheme for the future. We dont have many ham's in this area that even have packet equipment, so it must be able to work a 10 kilo range with low antennas [no hi [structurs we can get to][mesh?] and be quickly setup and taken down. Thanks for your prayers and wishes and the folks we have here in our shelters [most arrived Before the Hurricane hit] are fine folks any one would be happy to have live close by.
Rich Hudgins N5ale

--- "J. Beadles" <jbeadles@...> wrote:

> All,
>
> If you've been getting information from your local
> emergency
> coordinators or your ECs, you will know that there
> are amateur
> operators intensely involved in handling emergency
> response traffic
> related to Hurricane Katrina. The call for
> additional volunteers to
> supplement this effort has thus far been limited.
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> What we're seeing now is that refugees from the gulf
> coast area are
> being relocated to cities throughout Texas. Some
> are arriving in the
> Dallas - Ft. Worth area. There is a possibility
> that we might be
> activated to provide health & welfare traffic in
> facilities where
> immediately available mass communications do not
> exist.
>
> There is a potential opportunity for operators to
> set up HSMM
> networks in such facilities, using bridged links
> where necessary.
> Everybody might want to stay aware of the situation
> and be prepared
> to offer HSMM installations where appropriate. If
> you are so
> prepared, you may want to make sure your county
> RACES or ARES
> coordinator knows you have that ability.
>
> Obviously don't go overboard, but remember that high
> speed networking
> is another tool in our communications toolbox, and
> should be used
> where appropriate.
>
>
>

Start your day with Yahoo! - make it your home page
http://www.yahoo.com/r/hs

742. Re: [ntms-hsmm] Hurricane Katrina recovery efforts

Yahoo group: DAWG-HSMM
Date: 2005-09-04 19:50:30 UTC
From: dubose@texas.net
Topic: 740 Message: 742

Richard,

IMHO is a pieceof cake to do...you need a hub with as many ports as you have computers, an WET-11, 1 WAtt BDA may be necessary and probably a gain directional antenna at the input side.

At the end connected to the Internet, you need a WAP11 and maybe a BDA and probable a going antenna. Run the ourput of the BDA into an INternet connection.

Then you got it done.

BTW, that's the system/set up I am running on now in Dallas at the Texas Baptist Men's Disaster Relief operations center.

Walt/K5YFW

Quoting Richard Hudgins <n5ale@...>:

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>
> I would like to comment on this issue.? I have been
>
> running Redcross traffic from the shelters in Orange
>
> Texas for the last week, and the greatest issue that I
>
> feel is the lack of internet connectivity at these
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> shelters for the 'guests' we are not equiped in this
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> area for anything like that.? Some of the shelters
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> have internet but it is not readly availabe to our
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> friends from La. The redcross has stoped us from
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> handleling any health and wellfare traffic across the
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> local two meter nets and these folks are desperate to
>
> find family members.? We have just gotten setup in the
>
> local shelters for that by a gift from Walmart of
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> computers but some of them do not have internet
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> connectivity so I dont know how that will work. For
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> the future a deployable hight speed data link and
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> computer network would ease some of these problems.
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> The issue is working itself out now but it has been a
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> week since we started this effort and thats a long
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> time to wait for information on family.? No equipment
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> please, but lets put our heads together and develop a
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> rapid deployment scheme for the future.? We dont have
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> many ham's in this area that even have packet
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> equipment, so it must be able to work a 10 kilo range
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> with low antennas [no hi [structurs we can get
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> to][mesh?] and be quickly setup and taken down.
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> Thanks for your prayers and wishes and the folks we
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> have here in our shelters [most arrived Before the
>
> Hurricane hit] are fine folks any one would be happy
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> to have live close by.
>
> Rich Hudgins N5ale?
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>
> --- "J. Beadles" <jbeadles@...> wrote:
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> > All,
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> > If you've been getting information from your local
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> Start your day with Yahoo! - make it your home page
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> http://www.yahoo.com/r/hs
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> YAHOO! GROUPS LINKS
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> ?Visit your group "ntms-hsmm" on the web.
> ?
> ?To unsubscribe from this group, send an email to:
> ?ntms-hsmm-unsubscribe@yahoogroups.com
> ?
> ?Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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743. Re: Hurricane Katrina recovery efforts

Yahoo group: DAWG-HSMM
Date: 2005-09-05 02:57:16 UTC
From: J. Beadles
Topic: 740 Message: 743

Richard,

I have a scheme for specially designed bridge radio based around WRT54Gs and 19dB rootennas, with some additional work. After building up a couple for myself, I was asked to build four for the Irving ARC. It's a bit large, but reasonably cheap and very flexible. I'll have to do up the documentation, but have been planning on writing up a QST article based on their use. You'll be interested in this, I think.

--- In ntms-hsmm@yahoogroups.com, Richard Hudgins <n5ale@y...> wrote:
> I would like to comment on this issue. I have been
> running Redcross traffic from the shelters in Orange
> Texas for the last week, and the greatest issue that I
> feel is the lack of internet connectivity at these
> shelters for the 'guests' we are not equiped in this
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> the future a deployable hight speed data link and
> computer network would ease some of these problems.
> The issue is working itself out now but it has been a
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> time to wait for information on family. No equipment
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> Thanks for your prayers and wishes and the folks we
> have here in our shelters [most arrived Before the
> Hurricane hit] are fine folks any one would be happy
> to have live close by.
> Rich Hudgins N5ale
>
> --- "J. Beadles" <jbeadles@p...> wrote:
>
> > All,

> >
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> > emergency
> > coordinators or your ECs, you will know that there
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> _____
> Start your day with Yahoo! - make it your home page
> http://www.yahoo.com/r/hs

744. Wireless Internet [was] Hurricane Katrina recovery efforts

Yahoo group: DAWG-HSMM
Date: 2005-09-05 15:31:59 UTC
From: KC2MMi
Topic: 744 Message: 744

Rich-
<< it must be able to work a 10 kilo range
with low antennas ... quickly setup and taken down. >>

Hams using the power we are allowed (100 watts ERP) on conventional WiFi equipment can make that range. The antennas are available from many web sites, as are recomendations on the high-power cards and access points and even power amplifiers. Low antennas may be problematic, because they can be low but line of sight still counts for more than any amount of raw power.

As I see it, the main problem to using this is ham attittude. You know, "If anyone can buy it, it must be like CB or FRS and god help us, that's not an exclusive enough club so let's shun it all."

The equipment is available off the shelf and the learning curve should be near zero for a ham. Yes, the good stuff still costs money--but it is in a consumer price range from "big box" and mail order suppliers.

As WiMax and the other higher-power technologies deploy this year, you won't even need a ham license to get wide areas and high power.

745. Stompbox - mobile access point, Winlink (telpac) node

Yahoo group: DAWG-HSMM
Date: 2005-09-06 20:28:56 UTC
From: J. Beadles
Topic: 745 Message: 745

Attached is a link to the plans for StompBox, a mobile wifi access point device. It uses a single board microcomputer, a 1xEVDO wireless data card and a Wifi card to act as a portable router. Should be simple enought to put a TNC & radio on it and turn it into a portable Telpac node for VHF winlink. This would be a way to pull up to the edge of hot zone and provide VHF Winlink coverage, or put temporary Wifi service instantly into a location.

1xEVDO is a wireless data service that provides up to 2.4mbps over a compatible cell phone connection. Local Verizon Wireless adds have the service at $59 for unlimited data. I belive that Sprint is preparing to roll out their service as well.

http://www.stompboxnetworks.com/

Obviously this only works in a limited area and would not work where cell phone service goes down. But it should work right up to the edge of the 1xEVDO coverage area.

746. Re: [ntms-hsmm] Stompbox - mobile access point, Winlink (telpac) node

Yahoo group: DAWG-HSMM
Date: 2005-09-06 20:43:36 UTC
From: Bryan Ramsey
Topic: 745 Message: 746

Yea but inquiring minds want to know if you purchased the EvDo card yet?

BKR

J. Beadles wrote:

> Attached is a link to the plans for StompBox, a mobile wifi access
> point device. It uses a single board microcomputer, a 1xEVDO wireless
> data card and a Wifi card to act as a portable router. Should be
> simple enought to put a TNC & radio on it and turn it into a portable
> Telpac node for VHF winlink. This would be a way to pull up to the
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> http://www.stompboxnetworks.com/
>
> Obviously this only works in a limited area and would not work where
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> of the 1xEVDO coverage area.
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "ntms-hsmm
> <http://groups.yahoo.com/group/ntms-hsmm>" on the web.
>
> * To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
> <mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>

747. wrt54g power requirements

Yahoo group: DAWG-HSMM
Date: 2005-09-06 22:35:10 UTC
From: kd4rdb
Topic: 747 Message: 747

What did we ever settle on for a safe operational range of input voltage for the wrt54g?

Wes

748. WiFi gets a big government blessing

Yahoo group: DAWG-HSMM
Date: 2005-09-07 10:59:00 UTC
From: KC2MMi
Topic: 748 Message: 748

Last night ABC-TV played an interview taped earlier yesterday with a Port Authority (NY/NJ) team that has deployed to New Orleans to restore communications. The team member said they were "establishing a wifi bubble" which allowed VOIP, phones, computers, internet, etc. in the immediate area, with an uplink out to the internet and the world via a one foot satellite dish supplied by Unisys from Long Island.

This meshes with discussions about using WiFi in ARES, it confirms that WiFi can do the job. And, perhaps it explains part of why OEM has been slow to embrace ham radio: They've got the same [sic] technology but upscaled, and under the control of their own secure personnel.

An interesting development. Does anyone know anything more about the official use of WiFi by NYC/NYS agencies? Or the PA? they mentioned that "this" is the technology intended to be used to ensure disaster comunications here in NY, in the event of another major incident.

749. channels 12,13,14

Yahoo group: DAWG-HSMM
Date: 2005-09-07 11:19:33 UTC
From: Wes Johnston
Topic: 748 Message: 749

Although channels 12 13 14 are not available for use in the USA, what's on them in the USA?
Wes

750. Re: [ntms-hsmm] channels 12,13,14

Yahoo group: DAWG-HSMM
Date: 2005-09-07 19:31:41 UTC
From: Ron Cole
Topic: 748 Message: 750

2450-2483.5 FIXED MOBILE Radiolocation
S5.150 US41

ISM Equipment (18)
Private Land Mobile (90)
Fixed Microwave (101)

Ron

--- Wes Johnston <yahoo@...> wrote:

> Although channels 12 13 14 are not available for use
> in the USA, what's
> on them in the USA?
> Wes
>
>
> ------------------------ Yahoo! Groups Sponsor
> ----------------------~-->
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>
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>
> Yahoo! Groups Links
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>
> ntms-hsmm-unsubscribe@yahoogroups.com
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Ron

Click here to donate to the Hurricane Katrina relief effort.
http://store.yahoo.com/redcross-donate3/

751. RE: WiFi Antenna on Airplane:

Yahoo group: DAWG-HSMM
Date: 2005-09-08 14:33:07 UTC
From: Randall Dunning
Topic: 751 Message: 751

You will have to update the weight and balance information for the aircraft and have a A&P sign off on the installation otherwise the airworthiness certificate may be called into question resulting in a very unpleasent interaction with the FAA.

RD

"TOP SECRET, DESTROY BEFORE READING"
A Favorite Security Caveat

-

752. WIFI from a plane

Yahoo group: DAWG-HSMM
Date: 2005-09-19 20:12:11 UTC
From: Wes Johnston
Topic: 740 Message: 752

We ran an experiment this weekend from a small aircraft. I mounted a 15dBi yagi on a tripod in the rear seat of a plane pointed out the window and circled a house in the middle of nowhere that had a wrt54g on the roof. Power from the wrt54 was 200mW into the stock antennas. An obstruction on the roof ended up blocking about 90 degrees of the omni pattern from the wifi antennas, and the wing of the plane blocked a large portion of the horizon relative to the yagi. Ended up with the yagi pointing foward of the wing about 30degrees looking out the pilot's window/over his shoulder.

Results were good in so far as signal strength goes... -75dBm peak... and as the plane rolled and yawed, we were able to watch the signal slowing fade and come back... gave the pilot a feel for just how accurate it was to aim.... not very difficult.

The problem we did run into was that as we circled the house at 70knots (just over stall speed - with the flaps down too) at a range of 1.02 nautical miles, we'd go around too fast. By the time the wifi card realized it could see a router and began to DHCP, we were 1/2 around the house. I did get a DNS lookup of serveral websites, but never could get one to come up due to the time we had signal.

An additional problem we had was that there was some other air traffic moving thru the area, and we were asked to stay at 2500'. Well... 1/2 mile up and 1 mile out is 30degrees up. If we could have gone down to say 1500 feet, perhaps we could have gone out further and made slower orbits.

If I go with a higher gain antenna on the ground, it won't see up too well. So one solution that comes to mind is to tilt the antenna over 20 to 30 degrees so that the main omni lobe goes up into the sky (and 180 degrees around, it'll be in the ground. If I were to take a pair of lazy susans and mount them to the top and bottom of a wedge shaped mount, I could rotate the wedge without rotating the antenna... it would appear to wobble. If I kept the high side of the wedge pointed at the plane the main lobe of the antenna would be aimed at the plane. This would NOT rotate the antenna, so there would be no tangling of cables... just flexing the coax all the time.

Another idea that came to mind was to take advantage of the diversity antennas already on the linsys. I could mount two high gain omni antennas so that they tilted towards each other and effectively made two main lobes up into the sky 180degrees apart. Of course I'd probably loose signal at the 90 and 270 points... so they could be make to rock back and forth manually.... ie tilt them to the left when the plane is "over there" and tilt them to the right when the plane is 'over there".

My final idea would be to explore roaming. If I used two wrt54g's to get a total of 4 antennas mounted in the tilted fasion mentioned above, each tilted to cover a different 90 section of the sky, then as the plane circled it would appear to roam between the two access points as it came in and out of coverage of one or the other. Or four 90degree panel antennas pitched upward.

Anyone tested roaming with the sveasoft firmware? How does a person connect 4 antennas to 1 wrt54g? or do you just use two wrt54g's and roam between them?

another idea is to mount a NMO omni antenna to the plane's belly. I can't find an NMO mount WIFI antenna, so I was thinking of taking my war driving mag mount el-cheapo 7.5dbi antenna and unscrewing it from the base, and fabricating a piece of nylon to fit inside an NMO cap with a screw head sticking down thru. I just need to figure out the thread pitch on that 6 inch antenna mast.

Wes

753. Re: [ntms-hsmm] WIFI from a plane

Yahoo group: DAWG-HSMM
Date: 2005-09-19 22:15:36 UTC
From: Thorsten von Eicken
Topic: 740 Message: 753

Very cool! Thanks for the informative write-up!
The problem with using diversity is that an access point only transmits
a beacon on one antenna, so as a station you're dependent on hearing
that even if your data traffic goes through the other antenna. If you
are using madwifi, the beacon xmit is initiated by the driver and I've
toyed with the idea of modifying the driver to send out a beacon per
antenna. That should be a fairly simple mod, but I've not looked into it
in any detail.
Regards,
Thorsten

Wes Johnston wrote:

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> 15dBi yagi on a tripod in the rear seat of a plane pointed out the
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> driving mag mount el-cheapo 7.5dbi antenna and unscrewing it from the
> base, and fabricating a piece of nylon to fit inside an NMO cap with a
> screw head sticking down thru. I just need to figure out the thread
> pitch on that 6 inch antenna mast.
>
> Wes
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "ntms-hsmm
> <http://groups.yahoo.com/group/ntms-hsmm>" on the web.
>
> * To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
> <mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---

>

754. Re: [ntms-hsmm] WIFI from a plane

Yahoo group: DAWG-HSMM
Date: 2005-09-20 00:52:06 UTC
From: David Scobie
Topic: 740 Message: 754

Hi, you may already know about this, however I'll add it just for those who don't; Robert X. Cringely the aircraft and technology columist with PBS, wrote several articles in the summer of 2004 about "WiFi-in-the-sky" with WRT54G's using the Sveasoft load in his "funky homebuilt airplane".
<http://www.pbs.org/cringely/pulpit/pulpit20040715.html>
and
<http://www.pbs.org/cringely/pulpit/pulpit20040729.html>

73 de va3ae

755. Re: [ntms-hsmm] WIFI from a plane

Yahoo group: DAWG-HSMM
Date: 2005-09-20 02:29:40 UTC
From: Wes Johnston
Topic: 740 Message: 755

I think the sveasoft firmware can allow you to select AUTO for TX and RX, meaning that it'll transmit on the last anntenna a packet was heard on.... I think.... gotta test.

Wes

Thorsten von Eicken wrote:
> Very cool! Thanks for the informative write-up!
> The problem with using diversity is that an access point only transmits
> a beacon on one antenna, so as a station you're dependent on hearing
> that even if your data traffic goes through the other antenna. If you
> are using madwifi, the beacon xmit is initiated by the driver and I've
> toyed with the idea of modifying the driver to send out a beacon per
> antenna. That should be a fairly simple mod, but I've not looked into it
> in any detail.
> Regards,
> Thorsten
>
> Wes Johnston wrote:
>
>
>>We ran an experiment this weekend from a small aircraft. I mounted a
>>15dBi yagi on a tripod in the rear seat of a plane pointed out the
>>window and circled a house in the middle of nowhere that had a wrt54g on
>>the roof. Power from the wrt54 was 200mW into the stock antennas. An
>>obstruction on the roof ended up blocking about 90 degrees of the omni
>>pattern from the wifi antennas, and the wing of the plane blocked a
>>large portion of the horizon relative to the yagi. Ended up with the
>>yagi pointing foward of the wing about 30degrees looking out the pilot's
>>window/over his shoulder.
>>
>>Results were good in so far as signal strength goes... -75dBm peak...
>>and as the plane rolled and yawed, we were able to watch the signal
>>slowing fade and come back... gave the pilot a feel for just how
>>accurate it was to aim.... not very difficult.
>>
>>The problem we did run into was that as we circled the house at 70knots
>>(just over stall speed - with the flaps down too) at a range of 1.02
>>nautical miles, we'd go around too fast. By the time the wifi card
>>realized it could see a router and began to DHCP, we were 1/2 around the
>>house. I did get a DNS lookup of serveral websites, but never could get
>>one to come up due to the time we had signal.
>>
>>An additional problem we had was that there was some other air traffic
>>moving thru the area, and we were asked to stay at 2500'. Well... 1/2

>>mile up and 1 mile out is 30degrees up. If we could have gone down to
>>say 1500 feet, perhaps we could have gone out further and made slower
>>orbits.
>>
>>If I go with a higher gain antenna on the ground, it won't see up too
>>well. So one solution that comes to mind is to tilt the antenna over 20
>>to 30 degrees so that the main omni lobe goes up into the sky (and 180
>>degrees around, it'll be in the ground. If I were to take a pair of
>>lazy susans and mount them to the top and bottom of a wedge shaped
>>mount, I could rotate the wedge without rotating the antenna... it would
>>appear to wobble. If I kept the high side of the wedge pointed at the
>>plane the main lobe of the antenna would be aimed at the plane. This
>>would NOT rotate the antenna, so there would be no tangling of cables...
>>just flexing the coax all the time.
>>
>>Another idea that came to mind was to take advantage of the diversity
>>antennas already on the linsys. I could mount two high gain omni
>>antennas so that they tilted towards each other and effectively made two
>>main lobes up into the sky 180degrees apart. Of course I'd probably
>>loose signal at the 90 and 270 points... so they could be make to rock
>>back and forth manually.... ie tilt them to the left when the plane is
>>"over there" and tilt them to the right when the plane is 'over there".
>>
>>My final idea would be to explore roaming. If I used two wrt54g's to
>>get a total of 4 antennas mounted in the tilted fasion mentioned above,
>>each tilted to cover a different 90 section of the sky, then as the
>>plane circled it would appear to roam between the two access points as
>>it came in and out of coverage of one or the other. Or four 90degree
>>panel antennas pitched upward.
>>
>>Anyone tested roaming with the sveasoft firmware? How does a person
>>connect 4 antennas to 1 wrt54g? or do you just use two wrt54g's and
>>roam between them?
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>>another idea is to mount a NMO omni antenna to the plane's belly. I
>>can't find an NMO mount WIFI antenna, so I was thinking of taking my war
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>>base, and fabricating a piece of nylon to fit inside an NMO cap with a
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>>
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>>
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> Yahoo! Groups Links
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756. Re: [ntms-hsmm] WIFI from a plane

Yahoo group: DAWG-HSMM
Date: 2005-09-20 04:22:52 UTC
From: Thorsten von Eicken
Topic: 740 Message: 756

Ok, I don't know what driver the sveasoft code uses. I just looked up in
a 6-month old version of madwifi. Here's the code (you can read the
comment):

```
/*
* Check recent per-antenna transmit statistics and flip
* the default antenna if noticeably more frames went out
* on the non-default antenna.
* XXX assumes 2 anntenae
*/
otherant = sc->sc_defant & 1 ? 2 : 1;
if (sc->sc_ant_tx[otherant] > sc->sc_ant_tx[sc->sc_defant] + 2)
ath_setdefantenna(sc, otherant);
sc->sc_ant_tx[1] = sc->sc_ant_tx[2] = 0;
```

So if the "other" antenna has transmitted 2 frames more than the
"current" antenna, it sends the beacon out on the other antenna (i.e.
switches antenna). Looks like if you keep communicating while circling
the base station then the beacon should switch antenna in the overlap
zone of the two antennas. Just don't make a pause and go half-way
around! Ha...

Thorsten

Wes Johnston wrote:
> I think the sveasoft firmware can allow you to select AUTO for TX and
> RX, meaning that it'll transmit on the last anntenna a packet was heard
> on.... I think.... gotta test.
>
> Wes
>
> Thorsten von Eicken wrote:
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> > The problem with using diversity is that an access point only transmits
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> > in any detail.
> > Regards,
> > Thorsten
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> > Wes Johnston wrote:
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> >>15dBi yagi on a tripod in the rear seat of a plane pointed out the
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> >>the roof. Power from the wrt54 was 200mW into the stock antennas. An
> >>obstruction on the roof ended up blocking about 90 degrees of the omni
> >>pattern from the wifi antennas, and the wing of the plane blocked a
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> >>yagi pointing foward of the wing about 30degrees looking out the pilot's
> >>window/over his shoulder.
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> >>Results were good in so far as signal strength goes... -75dBm peak...
> >>and as the plane rolled and yawed, we were able to watch the signal
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> >>accurate it was to aim.... not very difficult.
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> >>The problem we did run into was that as we circled the house at 70knots
> >>(just over stall speed - with the flaps down too) at a range of 1.02
> >>nautical miles, we'd go around too fast. By the time the wifi card
> >>realized it could see a router and began to DHCP, we were 1/2 around the
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> >>moving thru the area, and we were asked to stay at 2500'. Well... 1/2
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> ---
>

757. Re: WIFI from a plane

Yahoo group: DAWG-HSMM
Date: 2005-09-22 23:53:51 UTC
From: Brian R. Chapman
Topic: 740 Message: 757

NMO mt antennas(2.4ghz) are available from Maxrad !!! They have a dual 902-928/2400-2500 low profile design(saltshaker) as well as about a 6" tall 2 coil whip!!! Works well!!! Be sure to use solid center double shield low loss cable such as LMR-240 or Antennex MBD or Larsen nmok ud nmo mts w/cable and reverse tnc for Router/AP !!! 73 Brian

758. Direcway Satellite to 802.11 at RV Show

Yahoo group: DAWG-HSMM
Date: 2005-10-01 03:38:43 UTC
From: Douglas Kilgore
Topic: 758 Message: 758

At the Dallas RV Show at Market Hall (Sep 29 - Oct2), a representative from Global Satellite Solutions of Arlington, TX was demonstrating the Direcway Satellite Internet.

He had a Direcway antenna mounted on his Suburban outside the door of the hall. He was using a Linksys access point with a 1 watt amplifier feeding a 15 inch omni on the roof (12db?). The signal came thru the glass doors to his booth located close to the door. He had a 802.11 bridge in the booth feeding his computer.

I asked if he was a ham but he wasn't. I told him about how we used Direcway for a feed at the Wild Ride bike rally this year.

His business is to install these systems on the big, expensive RVs.

There was another vendor which had a laptop with 802.11. He was getting an internet feed from the Market Hall. He was charged $200 for the service. And the coverage wasn't very good either. Too bad he didn't talk to Direcway before the show.

Doug Kilgore KD5OUG

759. Re: [ntms-hsmm] Direcway Satellite to 802.11 at RV Show

Yahoo group: DAWG-HSMM
Date: 2005-10-02 21:12:22 UTC
From: dubose@texas.net
Topic: 758 Message: 759

Doug,

Do you have the name and phone number of the Global Satellite Solutions of Arlington, TX?

I am currently using Starband to a local 802 network and two D-Link APs inside our 40 ft trailer. There is lots of latency in Starband and its not any faster (if as fast) as a 56K landline modem. I'd like something a little faster; but the Starband price is right.

Walt/K5YFw

Quoting Douglas Kilgore <douglas.kilgore@...>:
>
> At the Dallas RV Show at Market Hall (Sep 29 - Oct2), a representative
>
> from Global Satellite Solutions of Arlington, TX was demonstrating the
>
> Direcway Satellite Internet.
>
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> He had a Direcway antenna mounted on his Suburban outside the door of
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>
> Doug Kilgore? KD5OUG
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760. Re: [ntms-hsmm] Direcway Satellite to 802.11 at RV Show

Yahoo group: DAWG-HSMM
Date: 2005-10-02 21:26:56 UTC
From: Douglas Kilgore
Topic: 758 Message: 760

Contact:
Roger Odom
roger@...
817-468-1160 Work
817-946-0240 Cell

dubose@... wrote:

>Doug,
>
>Do you have the name and phone number of the Global Satellite Solutions of
>Arlington, TX?
>
>I am currently using Starband to a local 802 network and two D-Link APs
>inside our 40 ft trailer. There is lots of latency in Starband and its not
>any faster (if as fast) as a 56K landline modem. I'd like something a little
>faster; but the Starband price is right.
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>Walt/K5YFw
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>Quoting Douglas Kilgore <douglas.kilgore@...>:
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761. (Fwd) [Ham-80211] Emergency Wireless Internet

Yahoo group: DAWG-HSMM
Date: 2005-10-06 13:49:27 UTC
From: jbeadles@pobox.com
Topic: 761 Message: 761

```
------- Forwarded message follows -------
Date sent: Thu, 06 Oct 2005 07:50:44 -0500
To: ham-80211@...
From: Mark Miller <markm@...>

Interesting article.
http://www.nytimes.com/2005/10/05/technology/techspecial/05belson.htm

73,

Mark N5RFX
```

762. Emergency Wireless Internet

Yahoo group: DAWG-HSMM
Date: 2005-10-07 14:41:46 UTC
From: John Champa
Topic: 762 Message: 762

FROM: Mark N5RFX

We really must wonder why Hams are not doing more of this!

http://www.nytimes.com/2005/10/05/technology/techspecial/05belson.htm

73,
John, K8OCL

763. Re: [ntms-hsmm] Emergency Wireless Internet

Yahoo group: DAWG-HSMM
Date: 2005-10-07 16:06:04 UTC
From: Gregg Wonderly
Topic: 762 Message: 763

John Champa wrote:
> FROM: Mark N5RFX
>
> We really must wonder why Hams are not doing more of this!
>
> http://www.nytimes.com/2005/10/05/technology/techspecial/05belson.htm

I have an AP and wireless laptop that I take with me on such support activities. It's a must for me. If you aren't doing this, your missing another type of support that is vital to emergencies.

There are a great deal of things that are at issue here. One, at the forefront, is what the situation requires. If you have tools and skills that help, use them, or loan them etc. Ham Radio is a service. It takes skill (licensing and training) and tools (radios, power, antenna etc) to use it effectively. Other types of comms and infrastructure is just a part of the picture.

We're talking about emergency services here! Emergencies need lots of different services. Communications is the one that ham radio has always been entrusted with. The types of communications that people use has expanded beyond voice.

Voice comms can be confusing too. So, written down, typed, digital messages are more preferred for lists of things, or quantitative information. Wifi networks make this easy for close in needs. We still need Ham equipment for longer distance comms in some cases. As the Wifi/3g networks proliferate, the distance to a working one will shorten to the point that setting up bridging will be one of the skills that an EMCOMM support person might need to have.

Change is the only constant...

Gregg Wonderly
W5GGW

764. Flash Recover on a WRT-54G

Yahoo group: DAWG-HSMM
Date: 2005-10-07 18:00:44 UTC
From: Ron Cole
Topic: 764 Message: 764

Has anyone had any luck recovering a 54G that has a bad image in its flash memory?

I loaded a bad BIN file to my WRT54G and now it will not boot. I also did not have it configured for tftp updating on boot.

I have tried to do the FLASH CHIP Pin Short recovery method found on the internet but I cant seem to get the thing to come up so I could update the thing.

The Ethernet port comes up but the IP Stacks never start so I can't start a TFTP session.

Suggestions?

Ron

_____
Yahoo! Mail - PC Magazine Editors' Choice 2005
http://mail.yahoo.com

765. RE: [ntms-hsmm] Flash Recover on a WRT-54G

Yahoo group: DAWG-HSMM
Date: 2005-10-07 18:12:05 UTC
From: Dave Anderson
Topic: 764 Message: 765

>Has anyone had any luck recovering a 54G that has a
>bad image in its flash memory?

The WRT-54G has a JTAG port on it on the motherboard.

You can build a interface cable for this port and recover the unit.

Details here:

http://spacetoad.com/tmp/hairydairymaid_debrickv22.zip

Seeya,
Dave
KG4YZY
www.aprsfl.net

766. Re: Flash Recover on a WRT-54G

Yahoo group: DAWG-HSMM
Date: 2005-10-08 14:49:21 UTC
From: KC2MMi
Topic: 764 Message: 766

Ron, I don't remember the process but do recall seeing it mentioned in some of the web sites dealing with hacking the 54G and loading your own system onto it. There are some recovery processes mentioned in case that fails, IIRC one simply involved doing something very quickly before it could commence it's usual boot.

767. HSMM at Hamcom in 2006

Yahoo group: DAWG-HSMM
Date: 2005-10-31 15:56:05 UTC
From: J. Beadles
Topic: 767 Message: 767

All,

Due to the loss of the Arlington Convention Center (in Arlington, TX), Hamcom is moving to the Plano Centre in Plano, TX. The convention will be held on June 9 & 10, 2006. It's a good facility, but smaller, so there is much less classroom space. As programming director, I need to get a feel for what everyone wants to see so I can get my brain wrapped around how much space I can allot to each topic. If anybody has any suggestions, lets hear it!

768. Re: [ntms-hsmm] HSMM at Hamcom in 2006

Yahoo group: DAWG-HSMM
Date: 2005-10-31 19:29:31 UTC
From: TOM BLACKWELL
Topic: 767 Message: 768

Can you send a diagram of the facility (or a link for one)?

"J. Beadles" wrote:

> All,
>
> Due to the loss of the Arlington Convention Center (in Arlington, TX),
> Hamcom is moving to the Plano Centre in Plano, TX. The convention will
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> there is much less classroom space. As programming director, I need to
> get a feel for what everyone wants to see so I can get my brain wrapped
> around how much space I can allot to each topic. If anybody has any
> suggestions, lets hear it!

--
Regards, TOM BLACKWELL, PO Box 25403, Dallas, Texas 75225
ARRL SM NTX

[Non-text portions of this message have been removed]

769. Re: HSMM at Hamcom in 2006

Yahoo group: DAWG-HSMM
Date: 2005-10-31 22:09:44 UTC
From: J. Beadles
Topic: 767 Message: 769

--- In ntms-hsmm@yahoogroups.com, TOM BLACKWELL <decision@s...> wrote:
>
> Can you send a diagram of the facility (or a link for one)?
>
> "J. Beadles" wrote:
>
> > All,
> >
> > Due to the loss of the Arlington Convention Center (in Arlington,
TX),
> > Hamcom is moving to the Plano Centre in Plano, TX. The
convention will
> > be held on June 9 & 10, 2006. It's a good facility, but smaller,
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> > there is much less classroom space. As programming director, I
need to
> > get a feel for what everyone wants to see so I can get my brain
wrapped
> > around how much space I can allot to each topic. If anybody has
any
> > suggestions, lets hear it!

There doesn't appear to be one online, I'll shoot you one via email.

770. Re: [ntms-hsmm] Digest Number 241

Yahoo group: DAWG-HSMM
Date: 2005-11-01 19:18:24 UTC
From: Harry Lees
Topic: 770 Message: 770

Link to Plano Centre facility: http://www.planocentre.com/facility.htm

de KJ6WS, Harry

----- Original Message -----
From: <ntms-hsmm@yahoogroups.com>
To: <ntms-hsmm@yahoogroups.com>
Sent: Tuesday, November 01, 2005 6:05 AM
Subject: [ntms-hsmm] Digest Number 241

>
> There are 3 messages in this issue.
>
> Topics in this digest:
>
> 1. HSMM at Hamcom in 2006
> From: "J. Beadles" <jbeadles@...>
> 2. Re: HSMM at Hamcom in 2006
> From: TOM BLACKWELL <decision@...>
> 3. Re: HSMM at Hamcom in 2006
> From: "J. Beadles" <jbeadles@...>
>
>
> _____
> _____
>
> Message: 1
> Date: Mon, 31 Oct 2005 15:56:05 -0000
> From: "J. Beadles" <jbeadles@...>
> Subject: HSMM at Hamcom in 2006
>
> All,
>
> Due to the loss of the Arlington Convention Center (in Arlington, TX),
> Hamcom is moving to the Plano Centre in Plano, TX. The convention will
> be held on June 9 & 10, 2006. It's a good facility, but smaller, so
> there is much less classroom space. As programming director, I need to
> get a feel for what everyone wants to see so I can get my brain wrapped
> around how much space I can allot to each topic. If anybody has any
> suggestions, lets hear it!
>
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> _____

> _____
>
> Message: 2
> Date: Mon, 31 Oct 2005 13:29:31 -0600
> From: TOM BLACKWELL <decision@...>
> Subject: Re: HSMM at Hamcom in 2006
>
> Can you send a diagram of the facility (or a link for one)?
>
> "J. Beadles" wrote:
>
>> All,
>>
>> Due to the loss of the Arlington Convention Center (in Arlington, TX),
>> Hamcom is moving to the Plano Centre in Plano, TX. The convention will
>> be held on June 9 & 10, 2006. It's a good facility, but smaller, so
>> there is much less classroom space. As programming director, I need to
>> get a feel for what everyone wants to see so I can get my brain wrapped
>> around how much space I can allot to each topic. If anybody has any
>> suggestions, lets hear it!
>
> --
> Regards, TOM BLACKWELL, PO Box 25403, Dallas, Texas 75225
> ARRL SM NTX
>
>
> [Non-text portions of this message have been removed]
>
>
>
> _____
> _____
>
> Message: 3
> Date: Mon, 31 Oct 2005 22:09:44 -0000
> From: "J. Beadles" <jbeadles@...>
> Subject: Re: HSMM at Hamcom in 2006
>
> --- In ntms-hsmm@yahoogroups.com, TOM BLACKWELL <decision@s...> wrote:
>>
>> Can you send a diagram of the facility (or a link for one)?
>>
>> "J. Beadles" wrote:
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>> > All,
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>> > Due to the loss of the Arlington Convention Center (in Arlington,
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>> > be held on June 9 & 10, 2006. It's a good facility, but smaller,
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>> > suggestions, lets hear it!
>
> There doesn't appear to be one online, I'll shoot you one via email.
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> Yahoo! Groups Links
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771. Re: [ntms-hsmm] HSMM at Hamcom in 2006

Yahoo group: DAWG-HSMM
Date: 2005-11-02 05:00:59 UTC
From: Douglas Kilgore
Topic: 767 Message: 771

Does the facility have WiFi available or will we have to wire it
ourselves like Arlington?

Doug KD5OUG

J. Beadles wrote:

> All,
>
> Due to the loss of the Arlington Convention Center (in Arlington, TX),
> Hamcom is moving to the Plano Centre in Plano, TX. The convention will
> be held on June 9 & 10, 2006. It's a good facility, but smaller, so
> there is much less classroom space. As programming director, I need to
> get a feel for what everyone wants to see so I can get my brain wrapped
> around how much space I can allot to each topic. If anybody has any
> suggestions, lets hear it!
>
> >

772. Article - Unsecured Wifi would be outlawed by N.Y. county

Yahoo group: DAWG-HSMM
Date: 2005-11-07 15:29:44 UTC
From: J. Beadles
Topic: 772 Message: 772

http://news.zdnet.com/2100-1035_22-5934194.html?tag=nl.e539

773. Re: HSMM at Hamcom in 2006

Yahoo group: DAWG-HSMM
Date: 2005-11-07 15:47:54 UTC
From: J. Beadles
Topic: 767 Message: 773

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
> All,
>
> Due to the loss of the Arlington Convention Center (in Arlington,
TX),
> Hamcom is moving to the Plano Centre in Plano, TX. The convention
will
> be held on June 9 & 10, 2006. It's a good facility, but smaller, so
> there is much less classroom space. As programming director, I need
to
> get a feel for what everyone wants to see so I can get my brain
wrapped
> around how much space I can allot to each topic. If anybody has any
> suggestions, lets hear it!

There are 141 members on this list, but no responses to my question
concerning what you might like to see for Hamcom '06. Last year we had:

Dallas D-Star - Jim McClellan, N5MIJ
HSMM: Packaging for Outdoor Use - Tony Campbell, W5ADC
HSMM: Using the Linksys WRT54G - John Beadles, N5OOM
Introduction to HSMM - John Beadles, N5OOM

Do we not need these again, or anything new? This is a good chance to
tell the programming director what you want.

774. Re: [ntms-hsmm] Re: HSMM at Hamcom in 2006

Yahoo group: DAWG-HSMM
Date: 2005-11-07 16:16:52 UTC
From: bryanr
Topic: 767 Message: 774

OK, John since you asked...

I personally would like to hear any AARs with HAMs deploying after Katrina and Rita. What they deployed with, how they participated, what went wrong, what went right, lessons learned, would they do it again, etc. I don't know how we could fit something like that into the program but I for one would be very interested...

BKR

----- Original Message Follows -----
From: "J. Beadles" <jbeadles@...>
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: HSMM at Hamcom in 2006
Date: Mon, 07 Nov 2005 15:47:54 -0000

> --- In ntms-hsmm@yahoogroups.com, "J. Beadles"
> <jbeadles@p...> wrote: >
> > All,
> >
> > Due to the loss of the Arlington Convention Center (in
> Arlington, TX),
> > Hamcom is moving to the Plano Centre in Plano, TX. The
> convention will
> > be held on June 9 & 10, 2006. It's a good facility,
> > but smaller, so there is much less classroom space.
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> > anybody has any suggestions, lets hear it!
>
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> question concerning what you might like to see for
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> Dallas D-Star - Jim McClellan, N5MIJ
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> HSMM: Using the Linksys WRT54G - John Beadles, N5OOM
> Introduction to HSMM - John Beadles, N5OOM
>
> Do we not need these again, or anything new? This is a
> good chance to tell the programming director what you
> want.
> YAHOO! GROUPS LINKS
>

> Visit your group "ntms-hsmm" on the web.
> To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
> Your use of Yahoo! Groups is subject to the Yahoo!
> Terms of Service.
</blockquote></BODY>

775. Re: APPROVE -- zr5fe wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2005-11-07 16:50:33 UTC
From: Douglas Kilgore
Topic: 775 Message: 775

Welcome John -

I guess you take the prize for longest distance membership. I hope you learn from our activities in the Dallas, TX area. Feel free to ask questions.

Doug Kilgore KD5OUG
List Moderator

Yahoo! Groups Notification wrote:

> Hello,
>
> The following person would like to join the ntms-hsmm group:
> Email address: zr5fe <zr5fe@...>
>
> Comment from user:
> GDay, The name is John and i am a licensed ham QTH Durban on the
> EastCoast of SA. Two months ago I discovered the WRT54G, have read most
> the post's.
> Now where's that book of mine "IdiotsGuide2Linux".
>

776. Re: [ntms-hsmm] Re: HSMM at Hamcom in 2006

Yahoo group: DAWG-HSMM
Date: 2005-11-07 17:21:11 UTC
From: jman
Topic: 767 Message: 776

bryanr wrote:

> OK, John since you asked...
>
> I personally would like to hear any AARs with HAMs deploying
> after Katrina and Rita. What they deployed with,

Mansfield ICP for Rita evacuation
--We had a problem sharing info regarding of evacuees, we weren't able to get Dallas County to route evacuees to Tarrant County in a timely manor, this resulted in several (in my opinion) traffic and logistics problems that could have been avoided, some of this was out of Dallas and Tarrant county hands.
Our EOC's need multi lingual personnel present because evacuees had problems understanding directions to shelter staging areas as it was not their native language, we no habla espaniol when needed.
Good Stuff-
Tarrant County EOC had great support and the Mansfield Comm (ICP for the event) center was brand new. Great Security in the building, tons of snacks (I think my cholesterol count went through the roof over the 2 day service period I worked the comm at the ICP)
Salvation Army personnel are the best of the best.
Great radios, they were prepared with 2 mtr and 440 at the time, hf hadn't had time to be installed at the time because the center was brand new.
73 de KM5CW Joe Tarrant County RACES member

> how they
> participated, what went wrong, what went right, lessons
> learned, would they do it again, etc. I don't know how we
> could fit something like that into the program but I for one
> would be very interested...
>
> BKR
>
> ----- Original Message Follows -----
> From: "J. Beadles" <jbeadles@...>
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Re: HSMM at Hamcom in 2006
> Date: Mon, 07 Nov 2005 15:47:54 -0000
>
> > --- In ntms-hsmm@yahoogroups.com, "J. Beadles"
> > <jbeadles@p...> wrote: >
> > > All,
> > >
> > > Due to the loss of the Arlington Convention Center (in

> > Arlington, TX),
> > > Hamcom is moving to the Plano Centre in Plano, TX. The
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> > Your use of Yahoo! Groups is subject to the Yahoo!
> > Terms of Service.
> </blockquote></BODY>

http://km5cw.org

777. Re: HSMM at Hamcom in 2006

Yahoo group: DAWG-HSMM
Date: 2005-11-08 00:14:31 UTC
From: J. Beadles
Topic: 767 Message: 777

I like that... Will have to see what I can find. Personally, I took one plain, unpackaged WRT and not much else, because I was out of truck space.

--- In ntms-hsmm@yahoogroups.com, "bryanr" <bryanr@g...> wrote:
>
> OK, John since you asked...
>
> I personally would like to hear any AARs with HAMs deploying
> after Katrina and Rita. What they deployed with, how they
> participated, what went wrong, what went right, lessons
> learned, would they do it again, etc. I don't know how we
> could fit something like that into the program but I for one
> would be very interested...
>
> BKR
>
> ----- Original Message Follows -----
> From: "J. Beadles" <jbeadles@p...>
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Re: HSMM at Hamcom in 2006
> Date: Mon, 07 Nov 2005 15:47:54 -0000
>
> > --- In ntms-hsmm@yahoogroups.com, "J. Beadles"
> > <jbeadles@p...> wrote: >
> > > All,
> > >
> > > Due to the loss of the Arlington Convention Center (in
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> > > Hamcom is moving to the Plano Centre in Plano, TX. The
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> > Do we not need these again, or anything new? This is a
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> </blockquote></BODY>
>

778. Portable DirectWay satellite system.

Yahoo group: DAWG-HSMM
Date: 2005-11-08 00:31:35 UTC
From: J. Beadles
Topic: 778 Message: 778

http://www.dustyfoot.com/TripodSatelliteInternet.html

779. Re: [ntms-hsmm] Re: HSMM at Hamcom in 2006

Yahoo group: DAWG-HSMM
Date: 2005-11-08 02:00:38 UTC
From: Bob and Debbie Kmak
Topic: 767 Message: 779

John,

Oh, were you talking to me? :-)

One thing that hasn't been explored much is the performance of the wifi receivers. Like how susceptible they are to interference, do preamps help? Does additional transmit power help in the typical network? That sort of thing.

Bob

----- Original Message -----
From: "J. Beadles" <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Monday, November 07, 2005 9:47 AM
Subject: [ntms-hsmm] Re: HSMM at Hamcom in 2006

> --- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
> >
> > All,
> >
> > Due to the loss of the Arlington Convention Center (in Arlington,
> TX),
> > Hamcom is moving to the Plano Centre in Plano, TX. The convention
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> Do we not need these again, or anything new? This is a good chance to
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> Yahoo! Groups Links
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780. Re: [ntms-hsmm] Re: HSMM at Hamcom in 2006

Yahoo group: DAWG-HSMM
Date: 2005-11-08 06:33:35 UTC
From: Douglas Kilgore
Topic: 767 Message: 780

I would like to see a presentation from American Red Cross and Salvation Army about how they use HSMM in emergencies.

Maybe we could have the ARC van that was parked outside Ham-Com last year provide the internet connection for this year and we (our ham group) make the wireless connections to the interior of the building. This effort wold simulate an emergency control operation center

Is there wireless coverage already in the building?

I would be glad to give a presentation on HSMM in the Wild Ride 2005.

Doug Kilgore KD5OUG

J. Beadles wrote:

> --- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
>>All,
>>
>>Due to the loss of the Arlington Convention Center (in Arlington,
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> HSMM: Using the Linksys WRT54G - John Beadles, N5OOM
> Introduction to HSMM - John Beadles, N5OOM
>
> Do we not need these again, or anything new? This is a good chance to
> tell the programming director what you want.
>
>>

781. Re: Article - Unsecured Wifi would be outlawed by N.Y. county

Yahoo group: DAWG-HSMM
Date: 2005-11-09 03:27:05 UTC
From: KC2MMi
Topic: 772 Message: 781

Andy, it helps if one knows that Andy Spano is a hack who was running his mouth off to get airtime immediately before THE ELECTIONS which took place in Westchester and the rest of NYS today. I suspect that he already knows Westchester County would have a hard time pre-empting the FCC's control over the use of radio devices.

782. WI FI -

Yahoo group: DAWG-HSMM
Date: 2005-11-10 22:25:26 UTC
From: Randall Dunning
Topic: 782 Message: 782

Never underestimate the power of creepy political hacks to exceed their authority
and pass laws they have no business passing. Anyone who doesn't believe this
has never attempted to get municipal officials to abide by PRB-1 or any other
just restriction on their political power. I serve on the city council of the 10th largest
city in Texas and I am routinely amazed, on a daily basis, by the almost unlimited
capacity of crazy officials to execute bold and brazen power grabs, cynical attempts
on the public liberty, and outrageous raids on the public purse. From where I sit,
you had better keep your political powder dry for once one jurisdiction does something
really crazy, like outlaw open Wi-Fi APs, it can spread like gangrene and with
frightening speed to other jurisdictions! I'll be going to the National League of
Cities conference in December. If I hear that this lunatic notion is gaining any
traction I'll pass it on to the group.

RD

"TOP SECRET, DESTROY BEFORE READING"
A Favorite Security Caveat

783. Re: [ntms-hsmm] Article - Unsecured Wifi would be outlawed by N.Y. county

Yahoo group: DAWG-HSMM
Date: 2005-11-11 13:49:29 UTC
From: Ron Cole
Topic: 772 Message: 783

Well,

New york has an Anti Hacking law that states access a
wireless network without the permission of the owener
is a crime, so let me see if I get this right.

The City IT department drove around and "Hacked", as
defined in NY State law, into 248 different Computer
networks.

Shouldnt there be legal actions taken agains the city
and its IT department for such actions?

.....

Hey Im of the mind that if you leave the AP Open with
no WEP & DHCP on then I should be considered a public
access point. That being one that is free to the
general public to use.
That does leave you open to Law suits from the RIAA
and others that beleive in the Sue the Customer
business model....

Ron

--- "J. Beadles" <jbeadles@...> wrote:

>
http://news.zdnet.com/2100-1035_22-5934194.html?tag=nl.e539
>
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>
> ------------------------- Yahoo! Groups Sponsor>
----------------------~-->
> Get Bzzzy! (real tools to help you find a job).
> Welcome to the Sweet Life.
>
http://us.click.yahoo.com/A77XvD/vlQLAA/TtwFAA/5AhqlB/TM
>
---~->
>
>

>
> Yahoo! Groups Links
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>
> ntms-hsmm-unsubscribe@yahoogroups.com
>
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>
>
>

Ron

_____
Yahoo! FareChase: Search multiple travel sites in one click.
http://farechase.yahoo.com

784. WiFi to Rescue Xmas Parade???

Yahoo group: DAWG-HSMM
Date: 2005-11-13 06:32:47 UTC
From: Douglas Kilgore
Topic: 784 Message: 784

Could a PDA with 802.11b solve this problem?

The Chamber of Commerce 2005 Richardson Christmas Parade will be held on Saturday morning, Dec. 3 forming at Richardson Square Mall in East Richardson. The Richardson Wireless Klub is providing communications support for the parade.

Each year the the parade is video taped for broadcast over local cable channel. A local broadcast announcer has volunteered to be the live on-screen voice reviewing each float as it passes the judging stand. The announcer must have accurate information on each float as it passes the judging stand.

Each entrant is supposed to have pre-registered filling out an data sheet. As the entrant checks in at the staging area the morning of the parade, they are assigned a position and given a numbered sign to post on their float. For the announcer a notebook is made up of each sheet in numerical order.

The difficulties occur when an un-registered entrant shows up or when changes are made in the VIP lineup leading the parade. It's usually in the minutes just before the parade starts. This information must be passed to the judging stand about 2 blocks away from the staging area.

In past years a ham with an HT has relayed changes by voice to another ham at the judging stand which in turn gave it to a volunteer feeding information to the announcer. Due to high ambient noise levels involved with bands playing, etc., this transfer has been difficult.

Also, after the parade starts, the number of each float turning onto the street is transmitted to the judging stand. This is because the entrants sometimes get out of numerical order. There is a delay of 5-7 minutes between the time an entrant turns onto the street and the time the entrant arrives at the judging stand.

So I was thinking that a pedestrian mobile ham equipped with a PDA with 802.11b could relay the digital data to the judging stand where an old dot matrix printer with fanfold paper would print out the data. We would create our own Local area network. We would operate under Part 15 rules.

We have available the printer, a Linksys wireless print server, and multiple APs.

So...
1. WHO has a PDA equipped with 802.11b and would be willing to help?
2. What software would allow line by line text transfer?

3. Would the PDA power last for 4-5 hours of operation?

What else am I forgetting?

Suggestions please!

Doug Kilgore KD5OUG
Richardson Wireless Klub
Parade Ham Coordinator
Ph 972-231-8539

785. Re: [ntms-hsmm] WiFi to Rescue Xmas Parade???

Yahoo group: DAWG-HSMM
Date: 2005-11-13 13:21:17 UTC
From: jbeadles@pobox.com
Topic: 784 Message: 785

On 13 Nov 2005 at 0:32, Douglas Kilgore wrote:

> So I was thinking that a pedestrian mobile ham equipped with a PDA with
> 802.11b could relay the digital data to the judging stand where an old
> dot matrix printer with fanfold paper would print out the data. We
> would create our own Local area network. We would operate under Part 15
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> We have available the printer, a Linksys wireless print server, and
> multiple APs.
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> So...
> 1. WHO has a PDA equipped with 802.11b and would be willing to help?
> 2. What software would allow line by line text transfer?
> 3. Would the PDA power last for 4-5 hours of operation?

Just use a car charger cord and a gel-cell, should be no problem.
Might be able to borrow the PDA from KC5QHH. I sold him an old Ipaq,
and he has outfitted it with Wifi, weatherproof case and all that.

786. Re: [ntms-hsmm] WiFi to Rescue Xmas Parade???

Yahoo group: DAWG-HSMM
Date: 2005-11-14 09:11:28 UTC
From: John Barrett
Topic: 784 Message: 786

I've got a fully equipped HP Ipaq with lighter plug adapter -- I just need a battery with powerpoles on it -- I have the Powerpole to Lighter Socket adapter

I also have a laptop with wireless -- either would do the job for 4-5 hours even on their internal batteries

If the software to handle the printer int line mode doesnt exist -- I have all the tools to develop programs for the IPAQ and have written apps that talk to line-mode ticket printers -- so thats no problem either

I'll need the print server and a line printer to get started testing a solution

----- Original Message -----
From: "Douglas Kilgore" <douglas.kilgore@...>
To: "rwk-ntx group" <rwk-ntx@yahoogroups.com>; <ntms-hsmm@yahoogroups.com>; "NTMS" <ntms@...>; "RACES Group" <RichRACES@yahoogroups.com>
Sent: Sunday, November 13, 2005 12:32 AM
Subject: [ntms-hsmm] WiFi to Rescue Xmas Parade???

> Could a PDA with 802.11b solve this problem?
>
> The Chamber of Commerce 2005 Richardson Christmas Parade will be held on
> Saturday morning, Dec. 3 forming at Richardson Square Mall in East
> Richardson. The Richardson Wireless Klub is providing communications
> support for the parade.
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> Each year the the parade is video taped for broadcast over local cable
> channel. A local broadcast announcer has volunteered to be the live
> on-screen voice reviewing each float as it passes the judging stand.
> The announcer must have accurate information on each float as it passes
> the judging stand.
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> Each entrant is supposed to have pre-registered filling out an data
> sheet. As the entrant checks in at the staging area the morning of the
> parade, they are assigned a position and given a numbered sign to post
> on their float. For the announcer a notebook is made up of each sheet
> in numerical order.
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> The difficulties occur when an un-registered entrant shows up or when
> changes are made in the VIP lineup leading the parade. It's usually in
> the minutes just before the parade starts. This information must be
> passed to the judging stand about 2 blocks away from the staging area.
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> In past years a ham with an HT has relayed changes by voice to another

> ham at the judging stand which in turn gave it to a volunteer feeding
> information to the announcer. Due to high ambient noise levels involved
> with bands playing, etc., this transfer has been difficult.
>
> Also, after the parade starts, the number of each float turning onto the
> street is transmitted to the judging stand. This is because the
> entrants sometimes get out of numerical order. There is a delay of 5-7
> minutes between the time an entrant turns onto the street and the time
> the entrant arrives at the judging stand.
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> What else am I forgetting?
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> Suggestions please!
>
> Doug Kilgore KD5OUG
> Richardson Wireless Klub
> Parade Ham Coordinator
> Ph 972-231-8539
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> Yahoo! Groups Links
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787. NYC Violating State Law? Parish the Thought!

Yahoo group: DAWG-HSMM
Date: 2005-11-14 16:14:53 UTC
From: Randall Dunning
Topic: 787 Message: 787

Ron insightfully asks the question:

"Shouldnt [sic] there be legal actions taken agains [sic]
the city and its IT department for such actions?"

The answer? You would think YES but the real answer is likely NO.

Why? Simple! Government entities usually exempt themselves
and other governmental entities from any aspect of a new law
that is too expensive, time consuming, or personnel intensive.
Now, it is too too bad if you find compliance expensive, time
consuming, or personnel intensive. After all, government at all
levels passed over 100,000 laws, ordinances, statutes, and regulations
last year and you are accountable for all of them. (What, you don't
find the old saw "Ignorance of the Law is no excuse." comforting any
more? Neither do I) Since the New Deal we have pretty much become
slaves with the government as master rather than the other way
around. (I guess that was the "New" part of the "Deal".)

I would check that New York law again for existence of a clause
exempting government entities and agencies from prosecution.
Dollars to donuts it is either directly in the statute or part of
the overall chapter and/or subchapter in which the statute dwells.
Even if it is not explicitely there, there is this srange presumption
of purity that all governments claim and accord each other. Basically
the assumption is that government motives are always good even if
the execution produces really awful results. The technical term here
is "sovereign immunity". (Uh, I thought We the People were sovereign.
Silly me!)

Yes it stinks of hypocrisy but until people wake up and realize
what is being done to them little will change. And the flamers who
always rise up on these groups shrieking: Keep politics out of our
precious group! don't make things any better. I like a play on the
words of Trotsky that goes: "You may not be interested in government,
but government can be very interested in you." I would add that
when government becomes "very interested in you" or any of your vital
interests, you have had a bad day, a very very bad day.

Government is becoming VERY interested in WiFi so expect more and
not less insertion of the government camel's nose under our tent. I
suspect we Part 97 guys will take it in the chest when that happens.

RD - KC5QHH
2 Term Council Member - City of Garland, District 8

"We are fast approaching the stage of the ultimate inversion: the stage where the government is free to do anything it pleases, while the citizens may act only by permission; which is the stage of the darkest periods of human history, the stage of rule by brute force."
~ Ayn Rand, The Nature of Government

P.S. I have caught my own city doing things that I was sure were not only wrong but illegal. Council members and staff will spin and dodge and massage the facts such that even an "insider" has a herculean task attempting to get wrongs acknowledged, let alone righted.

788. Re: [ntms-hsmm] WiFi to Rescue Xmas Parade???

Yahoo group: DAWG-HSMM
Date: 2005-11-14 17:02:47 UTC
From: Douglas Kilgore
Topic: 784 Message: 788

Let's give it a try. It will be fun to try something new.

I will be attending a monthly meeting of the Richardson Wireless Klub tonight (Monday) 7:00pm at St. Barnabas Presbyterian Church, 1220 West Beltline in Richardson. You are invited to attend. I can bring the equipment and battery.

Please send me your phone number so we can get together.

Doug Kilgore KD5OUG
Ph 972-231-8539

John Barrett wrote:

> I've got a fully equipped HP Ipaq with lighter plug adapter -- I just need a
> battery with powerpoles on it -- I have the Powerpole to Lighter Socket
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> I also have a laptop with wireless -- either would do the job for 4-5 hours
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> If the software to handle the printer int line mode doesnt exist -- I have
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> talk to line-mode ticket printers -- so thats no problem either
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> I'll need the print server and a line printer to get started testing a
> solution
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> ----- Original Message -----
> From: "Douglas Kilgore" <douglas.kilgore@...>
> To: "rwk-ntx group" <rwk-ntx@yahoogroups.com>; <ntms-hsmm@yahoogroups.com>;
> "NTMS" <ntms@...>; "RACES Group" <RichRACES@yahoogroups.com>
> Sent: Sunday, November 13, 2005 12:32 AM
> Subject: [ntms-hsmm] WiFi to Rescue Xmas Parade???
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>>Doug Kilgore KD5OUG
>>Richardson Wireless Klub
>>Parade Ham Coordinator
>>Ph 972-231-8539
>>

789. Re: [ntms-hsmm] WiFi to Rescue Xmas Parade???

Yahoo group: DAWG-HSMM
Date: 2005-11-14 17:21:59 UTC
From: John Barrett
Topic: 784 Message: 789

214-762-9746

I wont need the battery until the actual event -- just the print server and printer

I have an AP here at the house, though if the print server supports it, we might want to try an adhoc peer to peer network if we can get a good signal at the distances required (2 blocks shouldnt be a problem with a free space path, or hang a beam on it)

What is the cross street for the church ??

----- Original Message -----
From: "Douglas Kilgore" <douglas.kilgore@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Monday, November 14, 2005 11:02 AM
Subject: Re: [ntms-hsmm] WiFi to Rescue Xmas Parade???

> Let's give it a try. It will be fun to try something new.
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> tonight (Monday) 7:00pm at St. Barnabas Presbyterian Church, 1220 West
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>> ----- Original Message -----
>> From: "Douglas Kilgore" <douglas.kilgore@...>
>> To: "rwk-ntx group" <rwk-ntx@yahoogroups.com>;
>> <ntms-hsmm@yahoogroups.com>;
>> "NTMS" <ntms@...>; "RACES Group" <RichRACES@yahoogroups.com>
>> Sent: Sunday, November 13, 2005 12:32 AM
>> Subject: [ntms-hsmm] WiFi to Rescue Xmas Parade???
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> Yahoo! Groups Links
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790. Re: NYC Violating State Law? Parish the Thought!

Yahoo group: DAWG-HSMM
Date: 2005-11-16 01:43:19 UTC
From: KC2MMi
Topic: 787 Message: 790

Uh, guys? If you're talking about the WESTCHESTER COUNTY WiFi scans, that's not in New York City. Now that Rudy "El Faciste" Giuliani is out, there's talk about NYC rejoining the Union and following the Constitution again.

791. WiFi Scans

Yahoo group: DAWG-HSMM
Date: 2005-11-16 15:48:18 UTC
From: Randall Dunning
Topic: 791 Message: 791

Thanks for clearing up the identify of the jurisdiction in question. The comments on governments cutting themselves mega-slack on obeying onerous laws still apply.

73,

RD

792. Re: WiFi to Rescue Xmas Parade???

Yahoo group: DAWG-HSMM
Date: 2005-11-16 16:54:33 UTC
From: kc5gwa
Topic: 784 Message: 792

Not sure if this would suffice for the printing of the information, but something like 'sticky notes' may work and just print individual notes off. I don't have a CE device, so can't vouch for the functionality, but here is a link to some programs that may work.

http://www.tucows.com/downloads/Windows/PDA/WindowsCE/PIM/NotepadsJotte
rs/

73
Bren
KC5GWA

793. Re: [ntms-hsmm] Article - Unsecured Wifi would be outlawed by N.Y. county

Yahoo group: DAWG-HSMM
Date: 2005-11-17 12:08:39 UTC
From: TOM BLACKWELL
Topic: 772 Message: 793

It seems to me that when you run it open and unsecured, you are granting permission to everyone who is so inclined to make use of it. This does not excuse malicious attacks - - but only the invited use, as stated.

I think there are real opportunities for ham radio with the use of the technology for local intranets, where ham licenses are required to transmit and 'check in.' Others will see them as they scan around and come to learn how easy it is to get a ham license. We'll see articles on this in computer magazines, and discussion at meetings of computer user groups like this one: http://www.ntpcug.org

BTW, Today there's news about Houston and Muni Wi-Fi:

http://www.chron.com/cs/CDA/ssistory.mpl/front/3461455

Ron Cole wrote:

> Well,
>
> New york has an Anti Hacking law that states access a
> wireless network without the permission of the owener
> is a crime, so let me see if I get this right.
>
> The City IT department drove around and "Hacked", as
> defined in NY State law, into 248 different Computer
> networks.
>
> Shouldnt there be legal actions taken agains the city
> and its IT department for such actions?
>
> .....
>
> Hey Im of the mind that if you leave the AP Open with
> no WEP & DHCP on then I should be considered a public
> access point. That being one that is free to the
> general public to use.
> That does leave you open to Law suits from the RIAA
> and others that beleive in the Sue the Customer
> business model....
>
> Ron
>
> --- "J. Beadles" <jbeadles@...> wrote:
>
> >

> http://news.zdnet.com/2100-1035_22-5934194.html?tag=nl.e539
> >
> >
> >

--
Regards, TOM BLACKWELL, PO Box 25403, Dallas, Texas 75225

794. RE: [ntms-hsmm] Article - Unsecured Wifi would be outlawed by N.Y. county

Yahoo group: DAWG-HSMM
Date: 2005-11-17 15:31:25 UTC
From: Leo Salas
Topic: 772 Message: 794

This is interesting thread. I work for a WISP in rural NE Texas. I have to agree with Tom about the open access 'gentleman's agreement'. The original idea of WiFi is for shared open access, of which I contribute my little bit of bandwidth at home for the neighborhood via firewall/router, but if New York outlaws this type of thinking, then it is my opinion that all equipment found open should be shut-down and taken. (Similar to radar detectors in most states)

Remember, WiFi operators are using Ham Radio Frequencies, therefore, probably causing some type of interference. If I left this system at work open for others to access, 'hack', that's puts me in the position to contribute to the delinquency.

I realize that in NE Texas we don't have a lot of people trying to hack our local WiFi networks. Just the presence in town would be noticed by those around here who don't like 'outsiders'. The law would run you off and chances of breaking 128k bit encryptions in the time frame needed to do so would be thwarted quickly by the local concealed permit or shotgun toting neighbor. hi.

The article on Houston's attempt at WiFi sound great. I usually check KHOU.com website daily for news from that area of Texas. Here in Paris, Our local police and EMS have acquired wireless equipment and my company has given them access to our access points for testing with their servers. All through VPN access of course.

I hope Houston's project goes ok.

Leo, N5JEP
Paris, TX

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of TOM BLACKWELL
Sent: Thursday, November 17, 2005 6:09 AM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Article - Unsecured Wifi would be outlawed by N.Y. county

It seems to me that when you run it open and unsecured, you are granting permission to everyone who is so inclined to make use of it. This does not excuse malicious attacks - - but only the invited use, as stated.

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Regards, TOM BLACKWELL, PO Box 25403, Dallas, Texas 75225

Yahoo! Groups Links

795. RE: [ntms-hsmm] WRT54GS cables

Yahoo group: DAWG-HSMM
Date: 2005-11-18 05:09:10 UTC
From: Johnny Shepherd
Topic: 784 Message: 795

[Rev. Father Johnny Shepherd] Hi can someone recommend where to have 50 ft cables with rtnc built for my wireless router WRT54gs at a reasonable price? I have the rage extended antennas but am wanting to mount them outside for more range. 73 Johnny

KD5lwu Cortez, CO

[Non-text portions of this message have been removed]

796. Re: [ntms-hsmm] WRT54GS cables

Yahoo group: DAWG-HSMM
Date: 2005-11-18 06:31:27 UTC
From: Douglas Kilgore
Topic: 784 Message: 796

Hi Johnny -
Check out http://www.fab-corp.com/ They are hams and give a discount
to hams if you mention your callsign. Look at their starter packages.

Did you try putting the AP in a weatherproof box on the antenna and use
power-over-ethernet on CAT-5 cable up to the box. You may have to up
the power voltage to compensate for resistance drop in the CAT-5 wire.
See http://www.gweep.net/%7Esfoskett/tech/poecalc.html

I'll send you a couple of pictures showing what we have been using.

Doug Kilgore KD5OUG

Johnny Shepherd wrote:

> [Rev. Father Johnny Shepherd] Hi can someone recommend where to have 50 ft
> cables with rtnc built for my wireless router WRT54gs at a reasonable price?
> I have the rage extended antennas but am wanting to mount them outside for
> more range. 73 Johnny
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797. Re: Article - Unsecured Wifi would be outlawed by N.Y. county

Yahoo group: DAWG-HSMM
Date: 2005-11-18 15:36:17 UTC
From: KC2MMi
Topic: 772 Message: 797

Tom-
<<It seems to me that when you run it open and unsecured, you are granting permission to everyone who is so inclined to make use of it.>>

Which is why in NYS most jurisdictions call it "fourth class tresspass" and a violation (like a jaywalking ticket) if you are found on someone's lawn and the lawn is not fenced or posted. Add a fence, or posted notices, and the violation becomes a misdemeanor and soon you spend the night in jail.

The laws are even simpler for WiFi. What you and I might think of "Gee lookit this" is IIRC now defined as federal computer tampering and/or theft of services even when there are no state or local laws dealing with it.

If you see a car in the street with the windows down and the keys in it, you probably know it wasn't just left there for you, and you expect to get slammed if you use it. And, the folks who left the key in it are arguably stupid to do so, in this day and age. Which is part of why most states make it illegal now to leave you keys in your car ignition, and why cars HAVE ignition keys to begin with. Them nice gum'mint boys made laws, to protect those who are too dumb to do it themselves--and the rest of us, from the collateral damage they cause.

Same thing with WiFi. Just because some idiot set it up without reading the fine manual, doesn't mean there is any reason for you to expect it is there for your use. If they leave it open and rename the network "PUBLIC_ACCESS" that's something else again.

But you know *perfectly* well, that borrowing someone's WiFi and borrowing their car are exactly the same thing. Might as well borrow the couch, the wife, the master bedroom, whatever else is unlocked at the same time, right? You sure about that?

Or maybe, you'd prefer more "help" from the gum'mint on this? Like Westchester wants to give?

798. RE: Article - Unsecured Wifi would be outlawed by N.Y. county

Yahoo group: DAWG-HSMM
Date: 2005-11-18 15:40:00 UTC
From: KC2MMi
Topic: 772 Message: 798

Leo-
<<Remember, WiFi operators are using Ham Radio Frequencies,>>

I don't think so. AFAIK 802.11a/b/g WiFi uses the ISM (Industrial, Scientific, Medical) frequencies which are NOT ham radio frequencies. As ham operators we are allowed to *share* them with everyone else--but they were not given to hams. We're just required to play nice, with everyone else in the same sand box. And we're allowed to use the big toys (boosters and antennas) because in theory we know better than to use them on the other kids.<G>

799. RE: WRT54GS cables

Yahoo group: DAWG-HSMM
Date: 2005-11-18 15:44:15 UTC
From: KC2MMi
Topic: 784 Message: 799

Johnny-
What Doug said. Running long cables to an outside antenna is pretty much guaranteed to be a waste of time. The loss in the cables is measured in decibels (db) per so-many-feet per frequency. If you look at the loss per foot at 2.4GHz (WiFi frequency) and add up for 50 feet, it may be larger than the gain provided by your antenna. It will certainly be significant.

On the other hand, there is no effective loss over an ethernet cable running 50 feet, so putting the entire WiFi box (router) outdoors in a weatherproof box gives you full performance. And probably won't be any more expensive.

800. Re: [ntms-hsmm] Re: Article - Unsecured Wifi would be outlawed by N.Y. county

Yahoo group: DAWG-HSMM
Date: 2005-11-18 16:05:16 UTC
From: Wes Johnston
Topic: 772 Message: 800

KC2MMi wrote:
> But you know *perfectly* well, that borrowing someone's WiFi and borrowing their
> car are exactly the same thing. Might as well borrow the couch, the wife, the
> master bedroom, whatever else is unlocked at the same time, right? You sure
> about that?

Hey now!.... the wife wasn't complaining.

I always tried to follow the 10 commandments... esp the one about "love
thy neighbor".... mmm mmm mmm, when I had a neighbor, and mmmmmm, when
he had a wife! - Lee Marvin in Paint Your Wagon.

Wes

801. RE: [ntms-hsmm] Re: Article - Unsecured Wifi would be outlawed by N.Y. county

Yahoo group: DAWG-HSMM
Date: 2005-11-18 16:27:03 UTC
From: Daron J. Wilson
Topic: 772 Message: 801

KC2MMi wrote:
> But you know *perfectly* well, that borrowing someone's WiFi and borrowing their
> car are exactly the same thing. Might as well borrow the couch, the wife, the
> master bedroom, whatever else is unlocked at the same time, right? You sure
> about that?

I'm not sure what planet you are on, but those clearly on not the same thing. A simple check with police officer or lawyer will confirm this.

Now, this is a morals issue, and as such there is likely no cut and dried answer. If I leave my wifi access point at home open, and you connect to it, specifically which crime have you committed? If I turn on a 100mxw FM transmitter and play music, and you listen to it from your house across the street, are you stealing my radio signal? If I play commercial music on that transmitter to listen to in my home, and you pick it up across the street, are you going to be required to pay ASCAP and BMI for the royalties on that music? Your logic argument is flawed.

As far as borrowing the neighbors wife, find me one wife that thinks there is NO difference in her husband 'borrowing the neighbors wife' and 'borrowing the neighbors wifi' and I'll want to meet her.

73

N7HQR

[Non-text portions of this message have been removed]

802. Re: [ntms-hsmm] WRT54GS cables

Yahoo group: DAWG-HSMM
Date: 2005-11-18 16:43:19 UTC
From: A.J. Farmer (AJ3U)
Topic: 784 Message: 802

Hi Johnny,

JEFA Tech makes them. Check out this link:

http://www.jefatech.com/product/ll400

If you just need an extension cable, choose RP-TNC for one end and
RP-TNC Female for the other.

Use promotion code HSMM at checkout for a 10% discount.

JEFA Tech is also owned and operated by HAMs.

Thanks!

--
A.J. Farmer, AJ3U

On 11/18/05, Johnny Shepherd <kd5lwu2@charter.net> wrote:
> [Rev. Father Johnny Shepherd] Hi can someone recommend where to have 50 ft
> cables with rtnc built for my wireless router WRT54gs at a reasonable price?
> I have the rage extended antennas but am wanting to mount them outside for
> more range. 73 Johnny
>
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>
> KD5lwu Cortez, CO
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> [Non-text portions of this message have been removed]
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803. RE: [ntms-hsmm] WRT54GS cables

Yahoo group: DAWG-HSMM
Date: 2005-11-18 16:48:53 UTC
From: Johnny Shepherd
Topic: 784 Message: 803

Dear Doug, A.J., Dave and all Thank you for the info. I can see moving the box to the roof and running Ethernet cable down is the better way. Appreciate the direction again thank you. 73 Johnny

Johnny Shepherd KD5LWU MVAARC President (Mesa verde Area Amateur Radio Club)

Club Call sign: W0MVC

Address: PO BOX 518 CORTEZ, CO 81321-0518
Meeting location: Cortez Journal, 123 Roger Smith St, Cortez, CO

Meeting day & time: 2nd Thursday each month 7:00PM

<skype:echolinkkd5lwu?call> Call me!
Get Skype <http://www.skype.com/go/download> and call me for free.
You must be licensed to use this link as it connects my Ham Repeater

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of A.J. Farmer (AJ3U)
Sent: Friday, November 18, 2005 9:43 AM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] WRT54GS cables

Hi Johnny,

JEFA Tech makes them. Check out this link:

http://www.jefatech.com/product/ll400

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Use promotion code HSMM at checkout for a 10% discount.

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Thanks!

--
A.J. Farmer, AJ3U

On 11/18/05, Johnny Shepherd <kd5lwu2@...> wrote:
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> I have the rage extended antennas but am wanting to mount them outside for
> more range. 73 Johnny
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> KD5lwu Cortez, CO
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<mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>

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<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

804. RE: [ntms-hsmm] RE: Article - Unsecured Wifi would be outlawed by N.Y. county

Yahoo group: DAWG-HSMM
Date: 2005-11-18 21:09:49 UTC
From: John Champa
Topic: 772 Message: 804

A portion of the 802.11a/b/g channels are within the Ham Band.
Only channels 1-6 in the case of b&g are within the Amateur 2.4 GHz band.

>From: "KC2MMi" <kc2mmi@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: <ntms-hsmm@yahoogroups.com>
>Subject: [ntms-hsmm] RE: Article - Unsecured Wifi would be outlawed by N.Y.
> county
>Date: Fri, 18 Nov 2005 10:40:00 -0500
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>
>Leo-
>
> <<Remember, WiFi operators are using Ham Radio Frequencies,>>
>
>
>
>I don't think so. AFAIK 802.11a/b/g WiFi uses the ISM (Industrial,
>Scientific,
>
>Medical) frequencies which are NOT ham radio frequencies. As ham operators
>we
>
>are allowed to *share* them with everyone else--but they were not given to
>hams.
>
>We're just required to play nice, with everyone else in the same sand box.
>And
>
>we're allowed to use the big toys (boosters and antennas) because in theory
>we
>
>know better than to use them on the other kids.<G>
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805. Re: Article - Unsecured Wifi would be outlawed by N.Y. county

Yahoo group: DAWG-HSMM
Date: 2005-11-18 21:44:56 UTC
From: J. Beadles
Topic: 772 Message: 805

And 802.11a uses the "Unlicensed National Information Infrastructure" band, which only overlaps the ham band on the upper 4 channels. The UNII band has its' own discussion in the Part 15 rules.

--- In ntms-hsmm@yahoogroups.com, "John Champa" <k8ocl@a...> wrote:
>
> A portion of the 802.11a/b/g channels are within the Ham Band.
> Only channels 1-6 in the case of b&g are within the Amateur 2.4 GHz band.
>
>
> >From: "KC2MMi" <kc2mmi@v...>
> >Reply-To: ntms-hsmm@yahoogroups.com
> >To: <ntms-hsmm@yahoogroups.com>
> >Subject: [ntms-hsmm] RE: Article - Unsecured Wifi would be outlawed by N.Y.
> > county
> >Date: Fri, 18 Nov 2005 10:40:00 -0500
> >
> >
> >
> >
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> >Leo-
> >
> > <<Remember, WiFi operators are using Ham Radio Frequencies,>>
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> >
> >
> >I don't think so. AFAIK 802.11a/b/g WiFi uses the ISM (Industrial,
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> >are allowed to *share* them with everyone else--but they were not given to
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> >
> >We're just required to play nice, with everyone else in the same sand box.
> >And
> >
> >we're allowed to use the big toys (boosters and antennas) because

in theory
> >we
> >
> >know better than to use them on the other kids.<G>
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> > Wireless digital communication

806. Christmas season WRT54Gs

Yahoo group: DAWG-HSMM
Date: 2005-11-19 03:07:41 UTC
From: J. Beadles
Topic: 806 Message: 806

The ad for MicroCenter here in Dallas is showing WRT54Gs for $29 after mail-in and instant rebates.

807. [ntms-hsmm] Panasonic Toughbook CF-29 WiFi Connector

Yahoo group: DAWG-HSMM
Date: 2005-11-19 06:07:26 UTC
From: J. Gordon Beattie, Jr.
Topic: 806 Message: 807

Hi Folks!
Anyone know what type of WiFi connector is on the back of CF-28 and CF-29 laptops?
I would like to put an external antenna on the machine for interfacing the Intel 2200b/g card to an amp and antenna in the 2.4 Ham band.
Thoughts?
73,
Gordon Beattie, W2TTT
201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of J. Beadles
Sent: Friday, 18 November, 2005 22:08
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Christmas season WRT54Gs

The ad for MicroCenter here in Dallas is showing WRT54Gs for $29 after mail-in and instant rebates.

YAHOO! GROUPS LINKS

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[Non-text portions of this message have been removed]

808. RE: [ntms-hsmm] Panasonic Toughbook CF-29 WiFi Connector

Yahoo group: DAWG-HSMM
Date: 2005-11-19 06:26:09 UTC
From: Dave Anderson
Topic: 806 Message: 808

>Anyone know what type of WiFi connector is on the back of
>CF-28 and CF-29 laptops?
>I would like to put an external antenna on the machine
>for interfacing the Intel 2200b/g card to an amp and
>antenna in the
>2.4 Ham band.

On the back? That'd be unusual. Can you take a picture and send it to me directly? I'm sure I can identify it.

Usually most of the internal cards are MiniPCI under the keyboard/in the laptop using Hirose U.FL connectors that connect to a small antenna around the LCD screen (in most cases).

6 & 12 " pigtails with 1.3mm (very small) coax can convert this almost flea sized sized connector easily to RP-SMA for example from off the shelf stuff - then you have a connector a bit more "workable" for using in this scenario (well at least, I keep them on the shelf).

Let me know on the connector, I'll get you the info you need.

Seeya,
Dave
KG4YZY
www.fab-corp.com

809. Re: [ntms-hsmm] Panasonic Toughbook CF-29 WiFi Connector

Yahoo group: DAWG-HSMM
Date: 2005-11-19 13:33:41 UTC
From: Wes Johnston
Topic: 806 Message: 809

Are you sure that's a wifi connector? I figured it was power for the
docking station. The SCSG just bought a toughbook, and I love it...
only problem is what we run xastir, and we have people who just LOVE to
touch the screen when they point at something, and inevitably the map
will zoom in on some small portion of the map delaying our conversation.

Wes

Dave Anderson wrote:
> >Anyone know what type of WiFi connector is on the back of
> >CF-28 and CF-29 laptops?
> >I would like to put an external antenna on the machine
> >for interfacing the Intel 2200b/g card to an amp and
> >antenna in the
> >2.4 Ham band.
>
> On the back? That'd be unusual. Can you take a picture and send it to me
> directly? I'm sure I can identify it.
>
> Usually most of the internal cards are MiniPCI under the keyboard/in the
> laptop using Hirose U.FL connectors that connect to a small antenna around
> the LCD screen (in most cases).
>
> 6 & 12 " pigtails with 1.3mm (very small) coax can convert this almost flea
> sized sized connector easily to RP-SMA for example from off the shelf stuff
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>
> Let me know on the connector, I'll get you the info you need.
>
> Seeya,
> Dave
> KG4YZY
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810. RE: [ntms-hsmm] Panasonic Toughbook CF-29 WiFi Connector

Yahoo group: DAWG-HSMM
Date: 2005-11-19 13:41:51 UTC
From: Dave Anderson
Topic: 806 Message: 810

>Are you sure that's a wifi connector? I figured it was
>power for the docking station. The SCSG just bought a
>toughbook, and I love it...
>only problem is what we run xastir, and we have people
>who just LOVE to touch the screen when they point at
>something, and inevitably the map will zoom in on some
>small portion of the map delaying our conversation.

Tis why I asked for a pic of it from him :)

I have seen a Fujitsu that -did- have a MMCX on the back, only sold in Japan once and also a OEM unit that had a u.fl under a trap door.

I haven't used one of the new toughbooks, I know on my Lifebook, with touchscreen, I have the same problem when demo'ing APRS :) Ham's can't seem to keep their fingers off the screen when they see their callsign <grin>.

Seeya,
Dave
KG4YZY
www.aprsfl.net
www.fab-corp.com

811. Re: [ntms-hsmm] Digest Number 253

Yahoo group: DAWG-HSMM
Date: 2005-11-19 16:13:53 UTC
From: KC2MMi
Topic: 811 Message: 811

Daron-

<I'm not sure what planet you are on, but those clearly on not the same thing. A simple check with police officer or lawyer will confirm this.>
How strange. On my home planet, police offcers are taught and trained to know that they are not lawyers. They are famous for NOT knowing the details of "the law" but rather for the criminal and administrative codes they enforce. And, as most of the lawyers will tell you, these are not MY views. They are the standards drawn and upheld by the courts in the US to date. You may disagree with them, because laws do change and not infrequently they ever reverse.

Nonetheless, the law today says that if you use some "service" that is not yours, that's specifically called "theft of service" no matter how you claim you found it. "Well, officer, I found this electric socket and it was LIVE so I decided to plug my car in and recharge it..." Uhuh.<G>

<<If I leave my wifi access point at home open, and you connect to it,>>
Yeah, but there's a federal computer tampering law covering that. Your state doesn't even get a vote in the matter, unless they do it through Congress now. Merely *connecting* and logging into a system which you do not have permission to enter, is a crime. Why or how you did it, is only an issue for the court to consider while they're passing sentence.

I never said that was my view, or that I agreed with it. Challenge the courts at your own peril. If you win, you're a patriot. If you lose, don't worry, pretty much everyplace except, what is it, Maracopa County? allows the inmates to use computers.

Your analogies to broadcasts and commercial music would be interesting--except, they're also covered by specific laws that have been worked out over the years. "Broadcasting" is a 1-way activity. Logging into someone else's computer and using their bandwidth (and by extension, using their identity since their ISP has contracted for them alone to use it), is a whole other kettle of fish.

<<are you going to be required to pay ASCAP and BMI for the royalties on that music?>>
Those royalty agreements--upheld by the courts--allow for audio listening. But in case you haven't heard, internet radio is fighting hard to stay alive because commercial music "broadcast" on the internet often has to pay steeper royalties than a local clear channel station would pay.

If you want a world without such legal encumbrances, try Red China, the former Yugoslavia, Romania, or the former USSR, all places where intellectual property was ruled to belong to ALL of the people and the courts allow many kinds of "borrowing". Including organs from some prisoners. Hmmm....

812. [Fwd: RE: [Laser] 50 milliwatt laser -- Interested in RF bits & pieces]

Yahoo group: DAWG-HSMM
Date: 2005-11-19 20:08:11 UTC
From: Douglas Kilgore
Topic: 812 Message: 812

-------- Original Message --------
Subject: RE: [Laser] 50 milliwatt laser -- Interested in RF bits & pieces
Date: Fri, 18 Nov 2005 07:01:41 -0800
From: Linden, Jerome <jlinden@...>
To: <jrlinden@...>

I am sending the attached sheets to those who have shown an interest in the laser inventory I recently acquired. I promise to have more soon but it will give you a little more fact.

For sale: 17 Ghz laser transmitters and receivers, 350 mhz bandwidth, 3500 ft range. 50 millwatt laser diode. Originally manufactured for MATV distribution. Compact and efficient laser collimators. Many partially build units, several out of the box ready. Ending inventory of bankrupt company. I will soon have most equipment and schematics on web site but I suspect that most interest there, will be the 17 Ghz equipment, oscillators, splitters, combiners, mixers, etc. For this group it may only be the laser itself, which is cute but dangerous. SERIOUS questions and buyers only. Tnx

JR Linden
Cave Creek, AZ
480.502.6396 wk
602.568.0710 cel

JR Linden K7PUR
Cave Creek, AZ
jrlinden@...

Laser mailing list
Laser@...
http://mailman.qth.net/mailman/listinfo/laser

813. RE: [ntms-hsmm] Panasonic Toughbook CF-29 WiFi Connector

Yahoo group: DAWG-HSMM
Date: 2005-11-20 00:45:10 UTC
From: J. Gordon Beattie, Jr.
Topic: 806 Message: 813

Dave,
Well, the internal card is an Intel Pro/Wireless 2200BG.
The info on this is available on the web in many places.
I can't determine which connectors are on the card, but that would be a
second choice since I would need to run a cable up and around the display.
From there I could put a connector on top of the display on an existing
mounting point.
I say it would be my second choice because there is an existing connector,
though of unknown type, on the back.
I can't find my USB cable for my camera...I think my son has it.
In the meantime, any ideas on the connector on the rear apron.
Thanks!
Gordon Beattie
201.314.6964
w2ttt@...

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of Dave Anderson
Sent: Saturday, 19 November, 2005 01:26
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Panasonic Toughbook CF-29 WiFi Connector

>Anyone know what type of WiFi connector is on the back of
>CF-28 and CF-29 laptops?
>I would like to put an external antenna on the machine
>for interfacing the Intel 2200b/g card to an amp and
>antenna in the
>2.4 Ham band.

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directly? I'm sure I can identify it.

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laptop using Hirose U.FL connectors that connect to a small antenna around
the LCD screen (in most cases).

6 & 12 " pigtails with 1.3mm (very small) coax can convert this almost flea
sized sized connector easily to RP-SMA for example from off the shelf stuff
- then you have a connector a bit more "workable" for using in this scenario
(well at least, I keep them on the shelf).

Let me know on the connector, I'll get you the info you need.

Seeya,
Dave

KG4YZY
www.fab-corp.com

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<http://groups.yahoo.com/gads?t=ms&k=Wireless+communication+and+networking&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=hRJ0br81seutr71Edtu2OQ> communication and
networking Wireless
<http://groups.yahoo.com/gads?t=ms&k=Wireless+digital+communication&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=QuCFxb8Yuv5VN7dy0jrJ6w> digital communication

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<http://docs.yahoo.com/info/terms/> .

[Non-text portions of this message have been removed]

814. RE: [ntms-hsmm] Panasonic Toughbook CF-29 WiFi Connector

Yahoo group: DAWG-HSMM
Date: 2005-11-20 01:00:51 UTC
From: J. Gordon Beattie, Jr.
Topic: 806 Message: 814

Hi Folks!
I went looking for a picture of the rear of the CF-29. I couldn't find one, except one of the rear panel where everything was labeled except the WiFi connector...figures!
As a consolation, I found the photo of the earlier CF-34 model with the AK-47 round through it.
It still runs, but needs an external display and keyboard (wonder why?) and it is rumored to be on display in Panasonic's offices in Secaucus, NJ.
Thanks!
Gordon
201.314.6964
w2ttt@...

Panasonic Toughbook CF-29 Wins Laptop Magazine Torture Test

Related Entries: <http://www.mavromatic.com/archives/cat_electronics>
Electronics
PANASONIC-BULLETPROOF-TOUGH.jpg
<http://www.mavromatic.com/images/PANASONIC-BULLETPROOF-TOUGH.jpg>

This thing looks like it was caught in the middle of a fire fight. it actually was! The photo is of a Panasonic Toughbook that stopped an AK-47 round in Iraq. The CF-29 notebook has been named "Editor's Choice" in Laptop Magazine's April Torture Test. For the complete story, <http://www.prnewswire.com/cgi-bin/stories.pl?ACCT=104&STORY=/www/story/04-07-2004/0002148068&EDATE=> click here. [via PRNEWSWIRE]

From: J. Gordon Beattie, Jr. [mailto:w2ttt@...]
Sent: Saturday, 19 November, 2005 19:45
To: ntms-hsmm@yahoogroups.com; w2ttt@...
Subject: RE: [ntms-hsmm] Panasonic Toughbook CF-29 WiFi Connector

Dave,
Well, the internal card is an Intel Pro/Wireless 2200BG.
The info on this is available on the web in many places.
I can't determine which connectors are on the card, but that would be a second choice since I would need to run a cable up and around the display.
From there I could put a connector on top of the display on an existing mounting point.
I say it would be my second choice because there is an existing connector, though of unknown type, on the back.
I can't find my USB cable for my camera...I think my son has it.
In the meantime, any ideas on the connector on the rear apron.
Thanks!

Gordon Beattie
201.314.6964
w2ttt@...

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Dave Anderson
Sent: Saturday, 19 November, 2005 01:26
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Panasonic Toughbook CF-29 WiFi Connector

>Anyone know what type of WiFi connector is on the back of
>CF-28 and CF-29 laptops?
>I would like to put an external antenna on the machine
>for interfacing the Intel 2200b/g card to an amp and
>antenna in the
>2.4 Ham band.

On the back? That'd be unusual. Can you take a picture and send it to me directly? I'm sure I can identify it.

Usually most of the internal cards are MiniPCI under the keyboard/in the laptop using Hirose U.FL connectors that connect to a small antenna around the LCD screen (in most cases).

6 & 12 " pigtails with 1.3mm (very small) coax can convert this almost flea sized sized connector easily to RP-SMA for example from off the shelf stuff - then you have a connector a bit more "workable" for using in this scenario (well at least, I keep them on the shelf).

Let me know on the connector, I'll get you the info you need.

Seeya,
Dave
KG4YZY
www.fab-corp.com

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<http://groups.yahoo.com/gads?t=ms&k=North+texas+university&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=o9dCAfz8zdGIatRo389_yA> texas university North
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l+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5
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&s=179&.sig=eQdemV69Jlw4uVB2Z61H-g> texas football Wireless
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texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+
communication&c=6&s=179&.sig=hRJ0br81seutr71Edtu2OQ> communication and
networking Wireless
<http://groups.yahoo.com/gads?t=ms&k=Wireless+digital+communication&w1=North
+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+f
ootball&w5=Wireless+communication+and+networking&w6=Wireless+digital+communi
cation&c=6&s=179&.sig=QuCFxb8Yuv5VN7dy0jrJ6w> digital communication

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[Non-text portions of this message have been removed]

815. Re: [ntms-hsmm] Panasonic Toughbook CF-29 WiFi Connector

Yahoo group: DAWG-HSMM
Date: 2005-11-20 02:27:55 UTC
From: Wes Johnston
Topic: 806 Message: 815

I found a picture in an ebay auction....

http://cgi.ebay.com/Panasonic-Ruggedised-Toughbook-CF-29-Centrino-1-3G-CF29_W0QQitemZ6821036875QQcategoryZ42205QQssPageNameZWDVWQQrdZ1QQcmdZViewItem

Hopefully, it'll show up in this email... Not a straight on pic, but at least you can see it... as I recall from the one we have in the SCSG, it's about 3/8" in dia.

Wes

[Non-text portions of this message have been removed]

816. RE: [ntms-hsmm] Panasonic Toughbook CF-29 WiFi Connector

Yahoo group: DAWG-HSMM
Date: 2005-11-20 03:40:49 UTC
From: Dave Anderson
Topic: 806 Message: 816

>Dave,
>Well, the internal card is an Intel Pro/Wireless 2200BG.
>The info on this is available on the web in many places.
>I can't determine which connectors are on the card, but
>that would be a second choice since I would need to run a
>cable up and around the display.
>>From there I could put a connector on top of the display
>on an existing
>mounting point.
>I say it would be my second choice because there is an
>existing connector, though of unknown type, on the back.
>I can't find my USB cable for my camera...I think my son has it.
>In the meantime, any ideas on the connector on the rear apron.

My best guess, based on some of the photos I see on the web is that this is not a WI-FI antenna connector.

The Intel card has U.FL conectors on the card directly, so if you wanted external access,you'd have to do what I did to my laptop and put a pigtail on it.

Now if the particular laptop you have is a different than the photo's ive seen, it's possible there is a internal pigtal that does this, but I've not seen any "us" market sold units with that.

Seeya,
Dave
KG4YZY
www.aprsfl.net
www.fab-corp.com

817. RE: [ntms-hsmm] Panasonic Toughbook CF-29 WiFi Connector

Yahoo group: DAWG-HSMM
Date: 2005-11-20 03:58:49 UTC
From: J. Gordon Beattie, Jr.
Topic: 806 Message: 817

Dave and Wes,
Thanks for your comments and pictures.
It really is the WiFi connector because it allows the docking station to use an external antenna.
I'll open the unit up again and see how I might route a replacement cable assembly.
Thanks!
Gordon
201.314.6964
w2ttt@...

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Dave Anderson
Sent: Saturday, 19 November, 2005 22:41
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Panasonic Toughbook CF-29 WiFi Connector

>Dave,
>Well, the internal card is an Intel Pro/Wireless 2200BG.
>The info on this is available on the web in many places.
>I can't determine which connectors are on the card, but
>that would be a second choice since I would need to run a
>cable up and around the display.
>>From there I could put a connector on top of the display
>on an existing
>mounting point.
>I say it would be my second choice because there is an
>existing connector, though of unknown type, on the back.
>I can't find my USB cable for my camera...I think my son has it.
>In the meantime, any ideas on the connector on the rear apron.

My best guess, based on some of the photos I see on the web is that this is not a WI-FI antenna connector.

The Intel card has U.FL conectors on the card directly, so if you wanted external access,you'd have to do what I did to my laptop and put a pigtail on it.

Now if the particular laptop you have is a different than the photo's ive seen, it's possible there is a internal pigtal that does this, but I've not seen any "us" market sold units with that.

Seeya,
Dave
KG4YZY

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[Non-text portions of this message have been removed]

818. RE: [ntms-hsmm] Panasonic Toughbook CF-29 WiFi Connector

Yahoo group: DAWG-HSMM
Date: 2005-11-20 04:01:44 UTC
From: J. Gordon Beattie, Jr.
Topic: 806 Message: 818

Wes,
The connector on the back is SMALLER than an RP-MMCX!
It is REALLY TINY!
I keep wondering if I'll need to machine something out of Teflon(tm)!
Thanks & 73,
Gordon Beattie
201.314.6964
w2ttt@...

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Wes Johnston
Sent: Saturday, 19 November, 2005 21:28
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Panasonic Toughbook CF-29 WiFi Connector

I found a picture in an ebay auction....

http://cgi.ebay.com/Panasonic-Ruggedised-Toughbook-CF-29-Centrino-1-3G-CF29_W0QQitemZ6821036875QQcategoryZ42205QQssPageNameZWDVWQQrdZ1QQcmdZViewItem

Hopefully, it'll show up in this email... Not a straight on pic, but at least you can see it... as I recall from the one we have in the SCSG, it's about 3/8" in dia.

Wes

[Non-text portions of this message have been removed]

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&s=179&.sig=eQdemV69Jlw4uVB2Z61H-g> texas football Wireless
<http://groups.yahoo.com/gads?t=ms&k=Wireless+communication+and+networking&w
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texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+
communication&c=6&s=179&.sig=hRJ0br81seutr71Edtu2OQ> communication and
networking Wireless
<http://groups.yahoo.com/gads?t=ms&k=Wireless+digital+communication&w1=North
+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+f
ootball&w5=Wireless+communication+and+networking&w6=Wireless+digital+communi
cation&c=6&s=179&.sig=QuCFxb8Yuv5VN7dy0jrJ6w> digital communication

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[Non-text portions of this message have been removed]

819. Re: [ntms-hsmm] WiFi to Rescue Xmas Parade???

Yahoo group: DAWG-HSMM
Date: 2005-11-24 10:26:06 UTC
From: John Barrett
Topic: 784 Message: 819

I'm having a real problem with the WPS11 dropping the wifi connection because my AP is half way across the house and the tiny antenna on the WPS just isnt up to the job.....

Can we arrange to get me an antenna with some gain to alleviate this problem ??

In fact -- I'm far enough along at this point to start working with the actual AP that we will use on site

We will need to pick an SSID and channel to operate on also.... Is someone available that can perform a site survey ?? Or I can pop over there with my PDA and see what nets we will be competing with

820. RE: [ntms-hsmm] WiFi to Rescue Xmas Parade???

Yahoo group: DAWG-HSMM
Date: 2005-11-24 13:06:13 UTC
From: J. Gordon Beattie, Jr.
Topic: 784 Message: 820

John,
Try using a program called "NetStumbler" to seek out other networks in your target area.
It captures all the information on each network in an area including SSIDs, MAC addesses, etc.
73,
Gordon Beattie, W2TTT
201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of John Barrett
Sent: Thursday, 24 November, 2005 05:26
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] WiFi to Rescue Xmas Parade???

I'm having a real problem with the WPS11 dropping the wifi connection because my AP is half way across the house and the tiny antenna on the WPS just isnt up to the job.....

Can we arrange to get me an antenna with some gain to alleviate this problem

??

In fact -- I'm far enough along at this point to start working with the actual AP that we will use on site

We will need to pick an SSID and channel to operate on also.... Is someone available that can perform a site survey ?? Or I can pop over there with my PDA and see what nets we will be competing with

---

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[Non-text portions of this message have been removed]

821. Re: [ntms-hsmm] WiFi to Rescue Xmas Parade???

Yahoo group: DAWG-HSMM
Date: 2005-11-24 14:16:49 UTC
From: Douglas Kilgore
Topic: 784 Message: 821

I have the one of the APs that we will be working with that I can bring
to your house. Please call me at 972-231-8539.

Let's take all of the coodinating messages off of the reflector. Use my
email address douglas.kilgore@...

Doug Kilgore KD5OUG

John Barrett wrote:

> I'm having a real problem with the WPS11 dropping the wifi connection
> because my AP is half way across the house and the tiny antenna on the WPS
> just isnt up to the job.....
>
> Can we arrange to get me an antenna with some gain to alleviate this problem
> ??
>
> In fact -- I'm far enough along at this point to start working with the
> actual AP that we will use on site
>
> We will need to pick an SSID and channel to operate on also.... Is someone
> available that can perform a site survey ?? Or I can pop over there with my
> PDA and see what nets we will be competing with
>
>

822. Re: [ntms-hsmm] WiFi to Rescue Xmas Parade???

Yahoo group: DAWG-HSMM
Date: 2005-11-24 17:37:04 UTC
From: John Barrett
Topic: 784 Message: 822

I've heard about NetStumbler -- and its overkill for checking out available APs in a single location -- any laptop/pda with a wifi browser is more than adequate for this job

----- Original Message -----
From: "J. Gordon Beattie, Jr." <vze1u2wn@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Thursday, November 24, 2005 7:06 AM
Subject: RE: [ntms-hsmm] WiFi to Rescue Xmas Parade???

> John,
> Try using a program called "NetStumbler" to seek out other networks in
> your
> target area.
> It captures all the information on each network in an area including
> SSIDs,
> MAC addesses, etc.
> 73,
> Gordon Beattie, W2TTT
> 201.314.6964
>
>
>
> _____
>
> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On
> Behalf
> Of John Barrett
> Sent: Thursday, 24 November, 2005 05:26
> To: ntms-hsmm@yahoogroups.com
> Subject: Re: [ntms-hsmm] WiFi to Rescue Xmas Parade???
>
>
> I'm having a real problem with the WPS11 dropping the wifi connection
> because my AP is half way across the house and the tiny antenna on the WPS
> just isnt up to the job.....
>
> Can we arrange to get me an antenna with some gain to alleviate this
> problem
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> ??
>
> In fact -- I'm far enough along at this point to start working with the
> actual AP that we will use on site
>

> We will need to pick an SSID and channel to operate on also.... Is someone
> available that can perform a site survey ?? Or I can pop over there with
> my
> PDA and see what nets we will be competing with
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> _____
>
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>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
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> _____
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> Yahoo! Groups Links
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823. Net Stumbler map

Yahoo group: DAWG-HSMM
Date: 2005-11-24 21:27:09 UTC
From: Leo Salas, N5JEP
Topic: 823 Message: 823

I have recently taken a GPS with me at work and drove around a while collecting data with Net Stumbler. What do I need to do to convert this information to a Map, say Delorme Street Atlas 2003, or Topo USA v4? or maybe even Google Earth?

Leo, N5JEP

[Non-text portions of this message have been removed]

824. Re: Net Stumbler map

Yahoo group: DAWG-HSMM
Date: 2005-11-24 23:38:42 UTC
From: Rick Wilson
Topic: 823 Message: 824

--- In ntms-hsmm@yahoogroups.com, "Leo Salas, N5JEP" <lsalas@1...> wrote:
>
> I have recently taken a GPS with me at work and drove around a while
> collecting data with Net Stumbler. What do I need to do to convert this
> information to a Map, say Delorme Street Atlas 2003, or Topo USA v4? or
> maybe even Google Earth?
>
> Leo, N5JEP
>
>
>
> [Non-text portions of this message have been removed]
>

You can use WiMap the free utility to convert Netstumbler files to Lat/Lon and draw objects for use in Street Atlas. Here's the URL:

http://www.honet.com/WiMap/

For MapPoint you can use StumVerter by Michael Puchol. It can be found here:

http://cit.stcc.edu/resources/OpenSourceTools/Stumverter/?C=D&O=A

Rick
W5TUX

825. RE: [ntms-hsmm] Re: Net Stumbler map

Yahoo group: DAWG-HSMM
Date: 2005-11-25 00:14:37 UTC
From: Johnny Shepherd
Topic: 823 Message: 825

Hi Rick could you please tell me how to get the N. American map for
StumVerter? Thanks and 73 Johnny

Johnny Shepherd KD5LWU MVAARC President (Mesa verde Area Amateur Radio Club)

Club Call sign: W0MVC

Address: PO BOX 518 CORTEZ, CO 81321-0518
Meeting location: Cortez Journal, 123 Roger Smith St, Cortez, CO

Meeting day & time: 2nd Thursday each month 7:00PM

<skype:echolinkkd5lwu?call> Call me!
Get Skype <http://www.skype.com/go/download> and call me for free.
You must be licensed to use this link as it connects my Ham Repeater

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of Rick Wilson
Sent: Thursday, November 24, 2005 4:39 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Net Stumbler map

--- In ntms-hsmm@yahoogroups.com, "Leo Salas, N5JEP" <lsalas@1...> wrote:
>
> I have recently taken a GPS with me at work and drove around a while
> collecting data with Net Stumbler. What do I need to do to convert this
> information to a Map, say Delorme Street Atlas 2003, or Topo USA v4? or
> maybe even Google Earth?
>
> Leo, N5JEP
>
>
>
> [Non-text portions of this message have been removed]
>
You can use WiMap the free utility to convert Netstumbler files to
Lat/Lon and draw objects for use in Street Atlas. Here's the URL:

http://www.honet.com/WiMap/

For MapPoint you can use StumVerter by Michael Puchol. It can be found
here:

http://cit.stcc.edu/resources/OpenSourceTools/Stumverter/?C=D
<http://cit.stcc.edu/resources/OpenSourceTools/Stumverter/?C=D&O=A> &O=A

Rick
W5TUX

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North
<http://groups.yahoo.com/gads?t=ms&k=North+texas&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=DIHU3-WDJPzIu_ln51VavQ> texas

North
<http://groups.yahoo.com/gads?t=ms&k=North+texas+football&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=eQdemV69Jlw4uVB2Z61H-g> texas football

Wireless
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Wireless
<http://groups.yahoo.com/gads?t=ms&k=Wireless+digital+communication&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=QuCFxb8Yuv5VN7dy0jrJ6w> digital communication

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[Non-text portions of this message have been removed]

826. Re: Net Stumbler map

Yahoo group: DAWG-HSMM
Date: 2005-11-25 01:17:06 UTC
From: Rick Wilson
Topic: 823 Message: 826

--- In ntms-hsmm@yahoogroups.com, "Johnny Shepherd" <kd5lwu2@c...> wrote:
>
> Hi Rick could you please tell me how to get the N. American map for
> StumVerter? Thanks and 73 Johnny
>
>
Sure thing. You will need MapPoint from Microsoft to make it work.
Here's the URL:

http://www.microsoft.com/mappoint/default.mspx

I am not sure of the price. My copy came as part of MAPS (Microsoft
Action Pack Subscription) which is a ton of MSFT software bundled for
members of their partner program.

EDIT- I just looked up the price. 299 USD. Yikes.

It's my understanding that StumVerter will not work for MS Streets and
Trips. But I believe that I have seen a script or scripts on the
Netstumbler forum that will work for S&T.

My personal preference is the older Delorme Street Atlas series. Their
newer user interface requires too much mousing, IMHO, and doesn't
support keyboard shortcuts (the ALT+ keys). WiMap works with most
versions of Street Atlas. See the site for compatibility details.

BTW, Brent Hildebrand's APRS+SA for packet only works with the older
versions of SA. The software named in years (2003, 2004, etc.)won't work.

Rick
W5TUX

827. RE: [ntms-hsmm] Re: Net Stumbler map

Yahoo group: DAWG-HSMM
Date: 2005-11-25 01:51:32 UTC
From: Johnny Shepherd
Topic: 823 Message: 827

Yikes 299.00 well that's out. I do have the older Delorme Street Atlas series in fact it's the only one I have. I am just on the cruise for "free" WiFI tools. Again thanks for the info Rick 73 Johnny

Johnny Shepherd KD5LWU MVAARC President (Mesa verde Area Amateur Radio Club)

Club Call sign: W0MVC

Address: PO BOX 518 CORTEZ, CO 81321-0518
Meeting location: Cortez Journal, 123 Roger Smith St, Cortez, CO

Meeting day & time: 2nd Thursday each month 7:00PM

<skype:echolinkkd5lwu?call> Call me!
Get Skype <http://www.skype.com/go/download> and call me for free.
You must be licensed to use this link as it connects my Ham Repeater

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Rick Wilson
Sent: Thursday, November 24, 2005 6:17 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Net Stumbler map

--- In ntms-hsmm@yahoogroups.com, "Johnny Shepherd" <kd5lwu2@c...> wrote:
>
> Hi Rick could you please tell me how to get the N. American map for
> StumVerter? Thanks and 73 Johnny
>
>
Sure thing. You will need MapPoint from Microsoft to make it work.
Here's the URL:

http://www.microsoft.com/mappoint/default.mspx

I am not sure of the price. My copy came as part of MAPS (Microsoft Action Pack Subscription) which is a ton of MSFT software bundled for members of their partner program.

EDIT- I just looked up the price. 299 USD. Yikes.

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versions of Street Atlas. See the site for compatibility details.

BTW, Brent Hildebrand's APRS+SA for packet only works with the older versions of SA. The software named in years (2003, 2004, etc.)won't work.

Rick
W5TUX

SPONSORED LINKS

North
<http://groups.yahoo.com/gads?t=ms&k=North+texas+real+estate&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=_o01Gw977BOX0m-x9DNACQ> texas real estate

North
<http://groups.yahoo.com/gads?t=ms&k=North+texas+university&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=o9dCAfz8zdGIatRo389_yA> texas university

North
<http://groups.yahoo.com/gads?t=ms&k=North+texas&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=DIHU3-WDJPzIu_ln51VavQ> texas

North
<http://groups.yahoo.com/gads?t=ms&k=North+texas+football&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=eQdemV69Jlw4uVB2Z61H-g> texas football

Wireless
<http://groups.yahoo.com/gads?t=ms&k=Wireless+communication+and+networking&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=hRJ0br81seutr71Edtu2OQ> communication and networking

Wireless
<http://groups.yahoo.com/gads?t=ms&k=Wireless+digital+communication&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=QuCFxb8Yuv5VN7dy0jrJ6w> digital communication

---

YAHOO! GROUPS LINKS

* Visit your group "ntms-hsmm
<http://groups.yahoo.com/group/ntms-hsmm> " on the web.

* To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com
<mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

828. Re: Net Stumbler map

Yahoo group: DAWG-HSMM
Date: 2005-11-25 01:52:10 UTC
From: Rick Wilson
Topic: 823 Message: 828

--- In ntms-hsmm@yahoogroups.com, "Johnny Shepherd" <kd5lwu2@c...> wrote:
>
> Hi Rick could you please tell me how to get the N. American map for
> StumVerter? Thanks and 73 Johnny

Addendum to my last post.

I just waded through the Microsoft EULA and it seems that I am allowed to produce a map (actually, less that 250) and not charge a fee. This will keep me out of trouble with the Redmond Legal Team.

The map for the Cortez area is only 16kb in size. I could email it as an attachment if you want to play around with StumVerter.

Rick
W5TUX

829. RE: [ntms-hsmm] Re: Net Stumbler map

Yahoo group: DAWG-HSMM
Date: 2005-11-25 01:55:34 UTC
From: Johnny Shepherd
Topic: 823 Message: 829

Thanks Rick that would be wonderful and much appreciated. 73

Johnny Shepherd KD5LWU MVAARC President (Mesa verde Area Amateur Radio Club)

Club Call sign: W0MVC

Address: PO BOX 518 CORTEZ, CO 81321-0518
Meeting location: Cortez Journal, 123 Roger Smith St, Cortez, CO

Meeting day & time: 2nd Thursday each month 7:00PM

<skype:echolinkkd5lwu?call> Call me!
Get Skype <http://www.skype.com/go/download> and call me for free.
You must be licensed to use this link as it connects my Ham Repeater

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of Rick Wilson
Sent: Thursday, November 24, 2005 6:52 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Net Stumbler map

--- In ntms-hsmm@yahoogroups.com, "Johnny Shepherd" <kd5lwu2@c...> wrote:
>
> Hi Rick could you please tell me how to get the N. American map for
> StumVerter? Thanks and 73 Johnny

Addendum to my last post.

I just waded through the Microsoft EULA and it seems that I am allowed
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will keep me out of trouble with the Redmond Legal Team.

The map for the Cortez area is only 16kb in size. I could email it as
an attachment if you want to play around with StumVerter.

Rick
W5TUX

YAHOO! GROUPS LINKS

* Visit your group "ntms-hsmm
<http://groups.yahoo.com/group/ntms-hsmm> " on the web.

* To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com
<mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

830. Re: [ntms-hsmm] Re: Net Stumbler map

Yahoo group: DAWG-HSMM
Date: 2005-11-25 10:13:48 UTC
From: Wes Johnston
Topic: 823 Message: 830

Try this one:
http://www.gpsvisualizer.com/map?form=wifi

Wes

Johnny Shepherd wrote:
> Hi Rick could you please tell me how to get the N. American map for
> StumVerter? Thanks and 73 Johnny
>
>
>
> Johnny Shepherd KD5LWU MVAARC President (Mesa verde Area Amateur Radio Club)
>
>
> Club Call sign: W0MVC
>
> Address: PO BOX 518 CORTEZ, CO 81321-0518
> Meeting location: Cortez Journal, 123 Roger Smith St, Cortez, CO
>
> Meeting day & time: 2nd Thursday each month 7:00PM
>
> <skype:echolinkkd5lwu?call> Call me!
> Get Skype <http://www.skype.com/go/download> and call me for free.
> You must be licensed to use this link as it connects my Ham Repeater
>
> -----Original Message-----
> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
> Of Rick Wilson
> Sent: Thursday, November 24, 2005 4:39 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Re: Net Stumbler map
>
>
>
> --- In ntms-hsmm@yahoogroups.com, "Leo Salas, N5JEP" <lsalas@1...> wrote:
>
>>I have recently taken a GPS with me at work and drove around a while
>>collecting data with Net Stumbler. What do I need to do to convert this
>>information to a Map, say Delorme Street Atlas 2003, or Topo USA v4? or
>>maybe even Google Earth?
>>
>>Leo, N5JEP
>>
>>
>>

>>[Non-text portions of this message have been removed]
>>
>
> You can use WiMap the free utility to convert Netstumbler files to
> Lat/Lon and draw objects for use in Street Atlas. Here's the URL:
>
> http://www.honet.com/WiMap/
>
> For MapPoint you can use StumVerter by Michael Puchol. It can be found
> here:
>
> http://cit.stcc.edu/resources/OpenSourceTools/Stumverter/?C=D
> <http://cit.stcc.edu/resources/OpenSourceTools/Stumverter/?C=D&O=A> &O=A
>
> Rick
> W5TUX
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> SPONSORED LINKS
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> North
> <http://groups.yahoo.com/gads?t=ms&k=North+texas+real+estate&w1=North+texas+
> real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football
> &w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&
> c=6&s=179&.sig=_o01Gw977BOX0m-x9DNACQ> texas real estate
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> =6&s=179&.sig=o9dCAfz8zdGIatRo389_yA> texas university
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> <http://groups.yahoo.com/gads?t=ms&k=North+texas&w1=North+texas+real+estate&
> w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless
> +communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.s
> ig=DIHU3-WDJPzIu_ln51VavQ> texas
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> North
> <http://groups.yahoo.com/gads?t=ms&k=North+texas+football&w1=North+texas+rea
> l+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5
> =Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6
> &s=179&.sig=eQdemV69Jlw4uVB2Z61H-g> texas football

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> Wireless
> <http://groups.yahoo.com/gads?t=ms&k=Wireless+communication+and+networking&w
> 1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+
> texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+
> communication&c=6&s=179&.sig=hRJ0br81seutr71Edtu2OQ> communication and
> networking
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> Wireless
> <http://groups.yahoo.com/gads?t=ms&k=Wireless+digital+communication&w1=North
> +texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+f
> ootball&w5=Wireless+communication+and+networking&w6=Wireless+digital+communi
> cation&c=6&s=179&.sig=QuCFxb8Yuv5VN7dy0jrJ6w> digital communication
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> YAHOO! GROUPS LINKS
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>
> * Visit your group "ntms-hsmm
> <http://groups.yahoo.com/group/ntms-hsmm> " on the web.
>
>
> * To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
> <mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
> * Your use of Yahoo! Groups is subject to the Yahoo!
> <http://docs.yahoo.com/info/terms/> Terms of Service.
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> [Non-text portions of this message have been removed]
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831. RE: [ntms-hsmm] Re: Net Stumbler map

Yahoo group: DAWG-HSMM
Date: 2005-11-25 15:35:17 UTC
From: Leo Salas
Topic: 823 Message: 831

Thanks Rick. I'll give that a try.

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of Rick Wilson
Sent: Thursday, November 24, 2005 5:39 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Net Stumbler map

--- In ntms-hsmm@yahoogroups.com, "Leo Salas, N5JEP" <lsalas@1...> wrote:
>
> I have recently taken a GPS with me at work and drove around a while
> collecting data with Net Stumbler. What do I need to do to convert this
> information to a Map, say Delorme Street Atlas 2003, or Topo USA v4? or
> maybe even Google Earth?
>
> Leo, N5JEP
>
>
>
> [Non-text portions of this message have been removed]
>
You can use WiMap the free utility to convert Netstumbler files to
Lat/Lon and draw objects for use in Street Atlas. Here's the URL:

http://www.honet.com/WiMap/

For MapPoint you can use StumVerter by Michael Puchol. It can be found
here:

http://cit.stcc.edu/resources/OpenSourceTools/Stumverter/?C=D&O=A

Rick
W5TUX

Yahoo! Groups Links

832. [Fwd: [TMD700A] APRSPoint thanksgiving special]

Yahoo group: DAWG-HSMM
Date: 2005-11-25 15:18:29 UTC
From: Douglas Kilgore
Topic: 832 Message: 832

```
-------- Original Message --------
Subject: [TMD700A] APRSPoint thanksgiving special
Date: Fri, 25 Nov 2005 10:07:26 -0000
From: hxc98 <hxc98@...>
Reply-To: TMD700A@yahoogroups.com
To: TMD700A@yahoogroups.com

APRSPoint is a complete APRS package with integrated street-level maps.
We are offerring a thanksgiving special. Now you can APRSPoint license
plus MapPoint 2004 for $88.95 instead of $109.95. Please visit
http://www.aprspoint.com/ for details. Thanks.

Community email addresses:
Post message: TMD700A@onelist.com
Subscribe: TMD700A-subscribe@onelist.com
Unsubscribe: TMD700A-unsubscribe@onelist.com
List owner: TMD700A-owner@onelist.com

Shortcut URL to this page:
http://www.onelist.com/community/TMD700A
Yahoo! Groups Links

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833. Hawking 7dbi antennas

Yahoo group: DAWG-HSMM
Date: 2005-11-26 02:59:02 UTC
From: Joe Jurecka
Topic: 833 Message: 833

FYI,
Down in Houston this morning, Micro Center had 7dBI Hawking antennas free after rebate (well, you have to pay tax on $25 and a stamp or two), but overall not a bad price. Comes with both RP-SMA and RP-TNC adaptre. The Richardson store may very well have stock as well.
73,
Joe

834. SMA->LinkSys TNC cables

Yahoo group: DAWG-HSMM
Date: 2005-11-29 19:18:31 UTC
From: John Barrett
Topic: 834 Message: 834

I just goofed up a short (8-10") sma to TNC adapter used between a LinkSys AccessPoint and Signal Booster -- I need to get a replacement ASAP -- where would be the best place in town ?? (cant afford to wait for shipping)

----- Original Message -----
From: "Joe Jurecka" <n5pyk@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Friday, November 25, 2005 8:59 PM
Subject: [ntms-hsmm] Hawking 7dbi antennas

> FYI,
> Down in Houston this morning, Micro Center had 7dBI Hawking antennas free
> after rebate (well, you have to pay tax on $25 and a stamp or two), but
> overall not a bad price. Comes with both RP-SMA and RP-TNC adaptre. The
> Richardson store may very well have stock as well.
> 73,
> Joe
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> Yahoo! Groups Links
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835. Re: [ntms-hsmm] SMA->LinkSys TNC cables

Yahoo group: DAWG-HSMM
Date: 2005-11-29 19:48:57 UTC
From: Douglas Kilgore
Topic: 834 Message: 835

I have an extra one.

Doug Kilgore

John Barrett wrote:

> I just goofed up a short (8-10") sma to TNC adapter used between a LinkSys
> AccessPoint and Signal Booster -- I need to get a replacement ASAP -- where
> would be the best place in town ?? (cant afford to wait for shipping)
>

836. Connectors

Yahoo group: DAWG-HSMM
Date: 2005-11-29 23:48:11 UTC
From: Leo Salas
Topic: 834 Message: 836

Can anyone suggest a good place to purchase RP-MMCX and RP-TNC connectors?

Leo
Paris, TX

837. Re: [ntms-hsmm] Connectors

Yahoo group: DAWG-HSMM
Date: 2005-11-30 00:43:55 UTC
From: jbeadles@pobox.com
Topic: 834 Message: 837

I've been buying all of mine either from Fab-corp or finished cables off eBay. Oh, www.wlanparts.com also has really cheap pigtails periodically.

On 29 Nov 2005 at 17:48, Leo Salas wrote:

> Can anyone suggest a good place to purchase RP-MMCX and RP-TNC connectors?
>
> Leo
> Paris, TX
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> Yahoo! Groups Links
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838. Re: [ntms-hsmm] Connectors

Yahoo group: DAWG-HSMM
Date: 2005-11-30 02:07:42 UTC
From: Bob and Debbie Kmak
Topic: 834 Message: 838

Leo,

Mouser has a pretty good selection at reasonable prices. Next day delivery at no extra charge, at least in the Dallas area. It may take an extra day to get it way up there in the frozen north...

Bob

----- Original Message -----
From: "Leo Salas" <lsalas@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Tuesday, November 29, 2005 5:48 PM
Subject: [ntms-hsmm] Connectors

> Can anyone suggest a good place to purchase RP-MMCX and RP-TNC connectors?
>
> Leo
> Paris, TX
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> Yahoo! Groups Links
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839. Re: [ntms-hsmm] Connectors

Yahoo group: DAWG-HSMM
Date: 2005-11-30 03:47:43 UTC
From: John Champa
Topic: 834 Message: 839

Paris, TX! My goodness. Is that where Doug Laughmiller (former AMSAT President) still lives? It is the only tme I visited London and Paris in the same day! In Texas, of course, where else?

God Bless Texas,
John, K8OCL

>From: "Bob and Debbie Kmak" <bdkmak@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: <ntms-hsmm@yahoogroups.com>
>Subject: Re: [ntms-hsmm] Connectors
>Date: Tue, 29 Nov 2005 20:07:42 -0600
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>Leo,
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>
>Mouser has a pretty good selection at reasonable prices. Next day delivery
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>at no extra charge, at least in the Dallas area. It may take an extra day
>to
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>get it way up there in the frozen north...
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>
>
>Bob
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>
>----- Original Message -----
>
>From: "Leo Salas" <lsalas@...>
>
>To: <ntms-hsmm@yahoogroups.com>
>
>Sent: Tuesday, November 29, 2005 5:48 PM
>
>Subject: [ntms-hsmm] Connectors

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>
> > Can anyone suggest a good place to purchase RP-MMCX and RP-TNC
>connectors?
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> > Leo
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> > Paris, TX
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> YAHOO! GROUPS LINKS
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>
> Visit your group "ntms-hsmm" on the web.
>
> To unsubscribe from this group, send an email to:
>ntms-hsmm-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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840. RE: [ntms-hsmm] Connectors

Yahoo group: DAWG-HSMM
Date: 2005-11-30 03:59:11 UTC
From: J. Gordon Beattie, Jr.
Topic: 834 Message: 840

Leo,

Last month, I bought two RP-MMCX to N Male pigtails from Pasadena Networks and can't use them. I thought that the connector on the back of my Panasonic Toughbook CF-29 was a RP-MMCX, but it wasn't.

I'll sell them to you at cost if you would like.

73,

Gordon Beattie, W2TTT

201.314.6964

w2ttt@...

w2ttt@...

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Leo Salas
Sent: Tuesday, 29 November, 2005 18:48
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Connectors

Can anyone suggest a good place to purchase RP-MMCX and RP-TNC connectors?

Leo
Paris, TX

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North
<http://groups.yahoo.com/gads?t=ms&k=North+texas+real+estate&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=_o01Gw977BOX0m-x9DNACQ> texas real estate

North
<http://groups.yahoo.com/gads?t=ms&k=North+texas+university&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=o9dCAfz8zdGIatRo389_yA> texas university

North
<http://groups.yahoo.com/gads?t=ms&k=North+texas&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.s

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&s=179&.sig=eQdemV69Jlw4uVB2Z61H-g> texas football

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texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+
communication&c=6&s=179&.sig=hRJ0br81seutr71Edtu2OQ> communication and
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ootball&w5=Wireless+communication+and+networking&w6=Wireless+digital+communi
cation&c=6&s=179&.sig=QuCFxb8Yuv5VN7dy0jrJ6w> digital communication

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[Non-text portions of this message have been removed]

841. Rootenna article

Yahoo group: DAWG-HSMM
Date: 2005-11-30 04:54:37 UTC
From: J. Beadles
Topic: 841 Message: 841

I finally finished this article on our flexible rootenna design. I'd appreciate any editorial comments.

http://www.n5oom.org/hsmm/rootenna_project.htm

842. RE: [ntms-hsmm] Connectors

Yahoo group: DAWG-HSMM
Date: 2005-11-30 14:23:13 UTC
From: Dave Anderson
Topic: 834 Message: 842

>I've been buying all of mine either from Fab-corp or

Guys,

Don't' forget to put your callsign in the comments field. HSMM users get a discount.

Seeya,
Dave, KG4YZY
www.aprsfl.net
www.fab-corp.com

843. Re: Hawking 7dbi antennas

Yahoo group: DAWG-HSMM
Date: 2005-11-30 17:16:48 UTC
From: KC2MMi
Topic: 833 Message: 843

> Down in Houston this morning, Micro Center had 7dBI Hawking antennas free
> after rebate

Here, they are $17.99 at the register plus tax (almost $20) for a net price of $9-10 after the $10 rebate, and that's for the older 6db antennas. The new ones claim 7db, not on sale. Removing the generous but cheap (high loss) cable, or shortening it to 6", could probably yield another full db of gain.

Does anyone know if the antenna "shell" is welded shut, or can pop open without damage? Easier to shorten it from the inside end.

CHECK YOUR PAPERWORK, MICROCENTER IS PLAYING CUTE. Their store-generated rebate forms were expired 10/31 and the current form is different. It can be downloaded from their web site--but the download won't display correctly unless you have the latest version of Acrobat installed. (And there's no excuse for that, Acrobat still can produce backwards-compatible files with no extra effort.)

The new/old forms have different box numbers as well as date limits.

844. RE: [ntms-hsmm] Connectors

Yahoo group: DAWG-HSMM
Date: 2005-11-30 22:38:27 UTC
From: Leo Salas
Topic: 834 Message: 844

This is the place.. Actually Doug is from Clarksville, TX.

We have one unique feature here in Paris. It's the only place you'll see an Eiffel tower with a LARGE red cowboy hat.

Ya'll come visit sometime ya hear?

73s
Leo

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of John Champa
Sent: Tuesday, November 29, 2005 9:48 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Connectors

Paris, TX! My goodness. Is that where Doug Laughmiller (former AMSAT President) still lives? It is the only tme I visited London and Paris in the same day! In Texas, of course, where else?

God Bless Texas,
John, K8OCL

>From: "Bob and Debbie Kmak" <bdkmak@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: <ntms-hsmm@yahoogroups.com>
>Subject: Re: [ntms-hsmm] Connectors
>Date: Tue, 29 Nov 2005 20:07:42 -0600
>
>
>
>
>
>Leo,
>
>
>
>Mouser has a pretty good selection at reasonable prices. Next day delivery
>
>at no extra charge, at least in the Dallas area. It may take an extra day
>to
>
>get it way up there in the frozen north...
>
>
>

>Bob
>
>
>
>
>
>----- Original Message -----
>
>From: "Leo Salas" <lsalas@...>
>
>To: <ntms-hsmm@yahoogroups.com>
>
>Sent: Tuesday, November 29, 2005 5:48 PM
>
>Subject: [ntms-hsmm] Connectors
>
>
>
>
>
> > Can anyone suggest a good place to purchase RP-MMCX and RP-TNC
>connectors?
>
> >
>
> > Leo
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> > Paris, TX
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> > Yahoo! Groups Links
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Yahoo! Groups Links

845. RE: [ntms-hsmm] Connectors

Yahoo group: DAWG-HSMM
Date: 2005-11-30 22:39:23 UTC
From: Leo Salas
Topic: 834 Message: 845

Thanks Gordon. I've got 20 premade now. Was looking for parts to fix those missing very small pieces. Hi.

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of J. Gordon Beattie, Jr.
Sent: Tuesday, November 29, 2005 9:59 PM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Connectors

Leo,

Last month, I bought two RP-MMCX to N Male pigtails from Pasadena Networks and can't use them. I thought that the connector on the back of my Panasonic Toughbook CF-29 was a RP-MMCX, but it wasn't.

I'll sell them to you at cost if you would like.

73,

Gordon Beattie, W2TTT

201.314.6964

w2ttt@...

w2ttt@...

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Leo Salas
Sent: Tuesday, 29 November, 2005 18:48
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Connectors

Can anyone suggest a good place to purchase RP-MMCX and RP-TNC connectors?

Leo
Paris, TX

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[Non-text portions of this message have been removed]

Yahoo! Groups Links

846. Antennas & Stuff

Yahoo group: DAWG-HSMM
Date: 2005-12-01 17:06:05 UTC
From: J. Beadles
Topic: 846 Message: 846

I don't think we've discussed this on the net recently, so I thought I'd throw it out:

Kent Britain, WA5VJB, a long time member of the North Texas Microwave Society, manufactures a line of PCB antennas, including several in the 2.4GHz range. These are bare, coated PCB boards to which you must attach your own feedline.

For 2.4GHz, he has two patch antennas (1 with 2 patches, the other with 4) and a small yagi antenna. These boards go for less than $10. Kent attends many of NTMS events, and sells at Hamcom. If you are in the Dallas area, Tanner Electronics carries his antenna line.

Also, here's another review of that Hawking 802.11b amplifier that was out earlier this year:

http://reviews.cnet.com/Hawking_HSB1_Wireless_Signal_Booster/4514-6461_7-31126286.html

847. RE: [ntms-hsmm] Re: Hawking 7dbi antennas

Yahoo group: DAWG-HSMM
Date: 2005-12-24 06:34:57 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 833 Message: 847

Hi Folks!

Anyone know of a USB based 802.11b/g adapter that is decent and can be used
with an external antenna?

My objective is to use it as a Ham Radio device in the 2.4 GHz band.
73,

J. Gordon Beattie, Jr., W2TTT

201.314.6964

w2ttt@... <mailto:w2ttt@...>

w2ttt@... <mailto:w2ttt@...>

w2ttt@... <mailto:w2ttt@...>

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of KC2MMi
Sent: Wednesday, 30 November, 2005 12:17
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Hawking 7dbi antennas

> Down in Houston this morning, Micro Center had 7dBI Hawking antennas free
> after rebate

Here, they are $17.99 at the register plus tax (almost $20) for a net price
of
$9-10 after the $10 rebate, and that's for the older 6db antennas. The new
ones
claim 7db, not on sale. Removing the generous but cheap (high loss) cable,
or
shortening it to 6", could probably yield another full db of gain.

Does anyone know if the antenna "shell" is welded shut, or can pop open
without
damage? Easier to shorten it from the inside end.

CHECK YOUR PAPERWORK, MICROCENTER IS PLAYING CUTE. Their store-generated
rebate
forms were expired 10/31 and the current form is different. It can be
downloaded
from their web site--but the download won't display correctly unless you
have
the latest version of Acrobat installed. (And there's no excuse for that,

Acrobat still can produce backwards-compatible files with no extra effort.)

The new/old forms have different box numbers as well as date limits.

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[Non-text portions of this message have been removed]

848. Re: [ntms-hsmm] Digest Number 261

Yahoo group: DAWG-HSMM
Date: 2005-12-24 18:35:34 UTC
From: Ralph E. Bugg
Topic: 848 Message: 848

A quick Google search for "usb 802.11 external antenna" turned up many
hits. One of the more promising hits was:
http://www.netgate.com/product_info.php?products_id=297

I hope this helps.

ntms-hsmm@yahoogroups.com wrote:

>Anyone know of a USB based 802.11b/g adapter that is decent and can be used
>with an external antenna?
>
>My objective is to use it as a Ham Radio device in the 2.4 GHz band.
>73,
>
>
--
Ralph E. Bugg K8HSQ
(SonyLT)

849. usb 802.11 external antenna

Yahoo group: DAWG-HSMM
Date: 2005-12-26 00:33:14 UTC
From: KC2MMi
Topic: 849 Message: 849

<<http://www.netgate.com/product_info.php?products_id=297>>

ROFL! At that price, you can buy two whole Linksys 54G routers and start building your own relay network. Looks like that site caters to the "marine yachting" market where price is no object.

And, the 200mW output is fully twice the maximum rated output for the 8.5db gain "marine" grade antenna they recommend using with it. What a rip.

850. Re: [ntms-hsmm] usb 802.11 external antenna

Yahoo group: DAWG-HSMM
Date: 2005-12-26 13:47:13 UTC
From: Paul Pescitelli
Topic: 849 Message: 850

uhhhh... read the antenna specifications more carefully next time..

"Maximum Power Input: 100 W"

which would be 100,000 mW

Paul

On 12/25/05, KC2MMi <kc2mmi@...> wrote:
>
> <<http://www.netgate.com/product_info.php?products_id=297>>
>
> ROFL! At that price, you can buy two whole Linksys 54G routers and start
> building your own relay network. Looks like that site caters to the
> "marine
> yachting" market where price is no object.
>
> And, the 200mW output is fully twice the maximum rated output for the
> 8.5db gain
> "marine" grade antenna they recommend using with it. What a rip.
>
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> ----------
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>

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73 - Paul K4UJ / FS, KP2, KP4, PJ6, PJ7,VP2E, ZF2UJ

[Non-text portions of this message have been removed]

851. Source for Hirose MS-156 Plug

Yahoo group: DAWG-HSMM
Date: 2005-12-26 16:34:15 UTC
From: Phil Williams
Topic: 851 Message: 851

I have a couple of 802.11 a/b/g cards that use the Hirose (www.horise.com)MS-156 receptacle. I am in need of source for the mating plug. Any of the part number would do:

MS-156-C(LP)-2

MS-156-HRMJ-2

Link for the spec sheet view here:
http://www.hirose.co.jp/cataloge_hp/e35801678.pdf

Thanks,

Phil, KA1GMN

852. Re: [ntms-hsmm] Source for Hirose MS-156 Plug

Yahoo group: DAWG-HSMM
Date: 2005-12-26 18:56:17 UTC
From: Paul Pescitelli
Topic: 851 Message: 852

What are the make and model of the cards ? Have you tried Mouser or Digikey
?

Are you trying to make a patch cable, if so check www.wlanparts.com

regards,
73 - Paul K4UJ / FS, KP2, KP4, PJ6, PJ7,VP2E, ZF2UJ

On 12/26/05, Phil Williams <rci2000@...> wrote:
>
> I have a couple of 802.11 a/b/g cards that use the Hirose
> (www.horise.com)MS-156 receptacle. I am in need of source for the
> mating plug. Any of the part number would do:
>
> MS-156-C(LP)-2
>
> MS-156-HRMJ-2
>
> Link for the spec sheet view here:
> http://www.hirose.co.jp/cataloge_hp/e35801678.pdf
>
> Thanks,
>
>
> Phil, KA1GMN
>
>
>
>
> ---
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[Non-text portions of this message have been removed]

853. Re: [ntms-hsmm] Source for Hirose MS-156 Plug

Yahoo group: DAWG-HSMM
Date: 2005-12-26 23:11:59 UTC
From: Phil Williams
Topic: 851 Message: 853

I need to fabricate a pigtail to go to SMA female. Make, model, and
FCC ID is as follows:'

Make: Belkin
Model: F6D3010
FCC ID: K75-F6D3010

I have pictures of the card and its connector. I will post the links to
these photos shortly.

De Phil KA1GMN

Paul Pescitelli wrote:
> What are the make and model of the cards ? Have you tried Mouser or Digikey
> ?
>
> Are you trying to make a patch cable, if so check www.wlanparts.com
>
> regards,
> 73 - Paul K4UJ / FS, KP2, KP4, PJ6, PJ7,VP2E, ZF2UJ
>
>
> On 12/26/05, Phil Williams <rci2000@...> wrote:
> >
> > I have a couple of 802.11 a/b/g cards that use the Hirose
> > (www.horise.com)MS-156 receptacle. I am in need of source for the
> > mating plug. Any of the part number would do:
> >
> > MS-156-C(LP)-2
> >
> > MS-156-HRMJ-2
> >
> > Link for the spec sheet view here:
> > http://www.hirose.co.jp/cataloge_hp/e35801678.pdf
> >
> > Thanks,
> >
> >
> > Phil, KA1GMN
> >
> >
> >
> >
> > ------------------------------
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>

854. Re: [ntms-hsmm] Source for Hirose MS-156 Plug

Yahoo group: DAWG-HSMM
Date: 2005-12-26 23:34:40 UTC
From: Phil Williams
Topic: 851 Message: 854

I uploaded two photos of the card and receptacle. Here are the links:

http://pg.photos.yahoo.com/ph/rci2000@.../detail?.dir=/fe90&.dnm=a5fbre2.jpg&.src=ph

Note: The receptacle is on the lower left had side of the card and is
in line with one of the antennas.

http://pg.photos.yahoo.com/ph/rci2000@.../detail?.dir=/fe90&.dnm=9e6bre2.jpg&.src=ph

Note: A better close-up of the receptacle - located in lower half of
photo. This is a a combination switch/receptacle. When the plug is
inserted, the antenna is taken out of the circuit. This receptacle is
designed for assembly line testing, so it has a very low insertion
life-cycle. What method one would come up with to adapt this connection
out to a some more common connector would have to be permanent.

I have searched through Digi-Key and www.wlanparts but no joy.

De Phil, KA1GMN

Phil Williams wrote:
> I need to fabricate a pigtail to go to SMA female. Make, model, and
> FCC ID is as follows:'
>
> Make: Belkin
> Model: F6D3010
> FCC ID: K75-F6D3010
>
> I have pictures of the card and its connector. I will post the links to
> these photos shortly.
>
> De Phil KA1GMN
>
> Paul Pescitelli wrote:
> > What are the make and model of the cards ? Have you tried Mouser or
> Digikey
> > ?
> >
> > Are you trying to make a patch cable, if so check www.wlanparts.com
> >
> > regards,
> > 73 - Paul K4UJ / FS, KP2, KP4, PJ6, PJ7,VP2E, ZF2UJ
> >
> >
> > On 12/26/05, Phil Williams <rci2000@...> wrote:
> > >
> > > I have a couple of 802.11 a/b/g cards that use the Hirose

> > > (www.horise.com)MS-156 receptacle. I am in need of source for the
> > > mating plug. Any of the part number would do:
> > >
> > > MS-156-C(LP)-2
> > >
> > > MS-156-HRMJ-2
> > >
> > > Link for the spec sheet view here:
> > > http://www.hirose.co.jp/cataloge_hp/e35801678.pdf
> > >
> > > Thanks,
> > >
> > >
> > > Phil, KA1GMN
> > >
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> > >
> > > ------------------------------
> > > YAHOO! GROUPS LINKS
> > >
> > >
> > > - Visit your group
> > "ntms-hsmm<http://groups.yahoo.com/group/ntms-hsmm>"
> > > on the web.
> > >
> > > - To unsubscribe from this group, send an email to:
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> ntms-hsmm-unsubscribe@yahoogroups.com<ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsu
bscribe>
> > >
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> >
> > [Non-text portions of this message have been removed]
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>

855. RE: [ntms-hsmm] Source for Hirose MS-156 Plug

Yahoo group: DAWG-HSMM
Date: 2005-12-27 01:29:04 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 851 Message: 855

Phil,

That connector looks VERY SIMILAR to the one I can't identify on the back of my Panasonic Toughbook 29.

Any measurements?

73,
J. Gordon Beattie, Jr., W2TTT
201.314.6964
<mailto:w2ttt@...> w2ttt@...
<mailto:w2ttt@...> w2ttt@...
<mailto:w2ttt@...> w2ttt@...

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Phil Williams
Sent: Monday, 26 December, 2005 18:35
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Source for Hirose MS-156 Plug

I uploaded two photos of the card and receptacle. Here are the links:

http://pg.photos.yahoo.com/ph/rci2000@.../detail?.dir=/fe90
<http://pg.photos.yahoo.com/ph/rci2000@.../detail?.dir=/fe90&.dnm=
a5fbre2.jpg&.src=ph> &.dnm=a5fbre2.jpg&.src=ph

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<http://pg.photos.yahoo.com/ph/rci2000@.../detail?.dir=/fe90&.dnm=
9e6bre2.jpg&.src=ph> &.dnm=9e6bre2.jpg&.src=ph

Note: A better close-up of the receptacle - located in lower half of photo. This is a a combination switch/receptacle. When the plug is inserted, the antenna is taken out of the circuit. This receptacle is designed for assembly line testing, so it has a very low insertion life-cycle. What method one would come up with to adapt this connection out to a some more common connector would have to be permanent.

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> > > Thanks,
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> > > Phil, KA1GMN
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> > >
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[Non-text portions of this message have been removed]

856. RE: [ntms-hsmm] Source for Hirose MS-156 Plug

Yahoo group: DAWG-HSMM
Date: 2005-12-27 01:33:17 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 851 Message: 856

Phil,

Is this the same connector for the WiFi on a Toughbook 29?

73,
J. Gordon Beattie, Jr., W2TTT
201.314.6964
<mailto:w2ttt@...> w2ttt@...
<mailto:w2ttt@...> w2ttt@...
<mailto:w2ttt@...> w2ttt@...

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Phil Williams
Sent: Monday, 26 December, 2005 11:34
To: ntms-hsmm@yahoogroups.com; Josh Mercer
Subject: [ntms-hsmm] Source for Hirose MS-156 Plug

I have a couple of 802.11 a/b/g cards that use the Hirose (www.horise.com)MS-156 receptacle. I am in need of source for the mating plug. Any of the part number would do:

MS-156-C(LP)-2

MS-156-HRMJ-2

Link for the spec sheet view here:
http://www.hirose.co.jp/cataloge_hp/e35801678.pdf

Thanks,

Phil, KA1GMN

YAHOO! GROUPS LINKS

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* To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com
<mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>

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<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

857. Re: [ntms-hsmm] Source for Hirose MS-156 Plug

Yahoo group: DAWG-HSMM
Date: 2005-12-27 01:44:25 UTC
From: Phil Williams
Topic: 851 Message: 857

Sorry to say that I have never examined the Toughbook 29. Do you have a photo of the receptacle in question?

I have this receptacle on a Belkin F6D3010 Client card. The spec for the receptacle can be found at:

http://www.hirose.co.jp/cataloge_hp/e35801678.pdf

This pdf file show the dimensions of the receptacle on page 4. Mating plugs and SMA adapters for this receptacle can be seen on page 6. I have seen these on Dlink DWL-650 and Cisco a/b/g cards too.

De Phil, KA1GMN

J. Gordon Beattie, Jr., W2TTT wrote:
> Phil,
>
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>
> 73,
> J. Gordon Beattie, Jr., W2TTT
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>
> _____
>
> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
> Of Phil Williams
> Sent: Monday, 26 December, 2005 11:34
> To: ntms-hsmm@yahoogroups.com; Josh Mercer
> Subject: [ntms-hsmm] Source for Hirose MS-156 Plug
>
>
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>
> Thanks,
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> Phil, KA1GMN
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> YAHOO! GROUPS LINKS
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> * Visit your group "ntms-hsmm
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> [Non-text portions of this message have been removed]
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>
>

> ----------
>

858. RE: [ntms-hsmm] Source for Hirose MS-156 Plug

Yahoo group: DAWG-HSMM
Date: 2005-12-27 09:51:14 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 851 Message: 858

Phil,

Here is a URL for a write-up that includes a couple of photos.

Look at the photo of the rear panel and you'll see a small round coaxial connector to the left of the multi-pin docking connector.

http://images.google.com/imgres?imgurl=http://www.pencomputing.com/images/panasonic_cf29_back.jpg
<http://images.google.com/imgres?imgurl=http://www.pencomputing.com/images/panasonic_cf29_back.jpg&imgrefurl=http://www.pencomputing.com/frames/textblock_panasonic_cf29.html&h=117&w=500&sz=23&tbnid=0s6sA-IwxjYJ:&tbnh=29&tbnw=127&hl=en&start=223&prev=/images%3Fq%3Dtoughbook%2B29%26start%3D220%26svnum%3D10%26hl%3Den%26lr%3D%26rls%3DSUNA,SUNA:2005-48,SUNA:en%26sa%3DN>
&imgrefurl=http://www.pencomputing.com/frames/textblock_panasonic_cf29.html&h=117&w=500&sz=23&tbnid=0s6sA-IwxjYJ:&tbnh=29&tbnw=127&hl=en&start=223&prev=/images%3Fq%3Dtoughbook%2B29%26start%3D220%26svnum%3D10%26hl%3Den%26lr%3D%26rls%3DSUNA,SUNA:2005-48,SUNA:en%26sa%3DN

The connector on the rear of the computer seems to have a center pin (male).

At one point I thought it was an RP-MMCX connector, but that was too big!

This connector you referenced seems to be a possibility.

What do you think?

How do we get some samples to check out?

73,
J. Gordon Beattie, Jr., W2TTT
201.314.6964
<mailto:w2ttt@...> w2ttt@...
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From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Phil Williams
Sent: Monday, 26 December, 2005 20:44
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Source for Hirose MS-156 Plug

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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

859. RE: [ntms-hsmm] Source for Hirose MS-156 Plug

Yahoo group: DAWG-HSMM
Date: 2005-12-27 10:03:52 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 851 Message: 859

Phil,

Here's the proper URL again.the editor and mail handler cut it up.

http://www.pencomputing.com/frames/textblock_panasonic_cf29.html

73,

J. Gordon Beattie, Jr., W2TTT
201.314.6964
<mailto:w2ttt@...> w2ttt@...
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From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of J. Gordon Beattie, Jr., W2TTT
Sent: Tuesday, 27 December, 2005 04:51
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Source for Hirose MS-156 Plug

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h=117&w=500&sz=23&tbnid=0s6sA-IwxjYJ:&tbnh=29&tbnw=127&hl=en&start=223&prev=/images%3Fq%3Dtoughbook%2B29%26start%3D220%26svnum%3D10%26hl%3Den%26lr%3D%26rls%3DSUNA,SUNA:2005-48,SUNA:en%26sa%3DN

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>
> MS-156-C(LP)-2
>
> MS-156-HRMJ-2
>
> Link for the spec sheet view here:
> http://www.hirose.co.jp/cataloge_hp/e35801678.pdf
>
> Thanks,
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>
> Phil, KA1GMN
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>
> YAHOO! GROUPS LINKS
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>
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> <http://docs.yahoo.com/info/terms/> Terms of Service.
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

860. RE: [ntms-hsmm] Source for Hirose MS-156 Plug

Yahoo group: DAWG-HSMM
Date: 2005-12-27 14:01:11 UTC
From: Phil Williams
Topic: 851 Message: 860

I see the connector you are refering to but it is hard to make out the details. Is there anyway that you can get a close up photo of the receptacle?

De Phil, KA1GMN

"J. Gordon Beattie, Jr., W2TTT" <vze1u2wn@...> wrote: Phil,

Here's the proper URL again.the editor and mail handler cut it up.

http://www.pencomputing.com/frames/textblock_panasonic_cf29.html

73,

J. Gordon Beattie, Jr., W2TTT
201.314.6964
<mailto:w2ttt@...> w2ttt@...
<mailto:w2ttt@...> w2ttt@...
<mailto:w2ttt@...> w2ttt@...

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of J. Gordon Beattie, Jr., W2TTT
Sent: Tuesday, 27 December, 2005 04:51
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Source for Hirose MS-156 Plug

Phil,

Here is a URL for a write-up that includes a couple of photos.

Look at the photo of the rear panel and you'll see a small round coaxial connector to the left of the multi-pin docking connector.

http://images.google.com/imgres?imgurl=http://www.pencomputing.com/images/panasonic_cf29_back.jpg
<http://images.google.com/imgres?imgurl=http://www.pencomputing.com/images/panasonic_cf29_back.jpg&imgrefurl=http://www.pencomputing.com/frames/textblock_panasonic_cf29.html&h=117&w=500&sz=23&tbnid=0s6sA-IwxjYJ:&tbnh=29&tbnw=127&hl=en&start=223&prev=/images%3Fq%3Dtoughbook%2B29%26start%3D220%26svnum%3D10%26hl%3Den%26lr%3D%26rls%3DSUNA,SUNA:2005-48,SUNA:en%26sa%3DN>
&imgrefurl=http://www.pencomputing.com/frames/textblock_panasonic_cf29.html
<http://www.pencomputing.com/frames/textblock_panasonic_cf29.html&> &h=117&w=500&sz=23&tbnid=0s6sA-IwxjYJ:&tbnh=29&tbnw=127&hl=en&start=223&prev=/images%3Fq%3Dtoughbook%2B29%26start%3D220%26svnum%3D10%26hl%3Den%26lr%3D%26rls%3DSUNA,SUNA:2005-48,SUNA:en%26sa%3DN

The connector on the rear of the computer seems to have a center pin (male).

At one point I thought it was an RP-MMCX connector, but that was too big!

This connector you referenced seems to be a possibility.

What do you think?

How do we get some samples to check out?

73,
J. Gordon Beattie, Jr., W2TTT
201.314.6964
<mailto:w2ttt@...> w2ttt@...
<mailto:w2ttt@...> w2ttt@...
<mailto:w2ttt@...> w2ttt@...

_____

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of Phil Williams
Sent: Monday, 26 December, 2005 20:44
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Source for Hirose MS-156 Plug

Sorry to say that I have never examined the Toughbook 29. Do you have a
photo of the receptacle in question?

I have this receptacle on a Belkin F6D3010 Client card. The spec for the
receptacle can be found at:

http://www.hirose.co.jp/cataloge_hp/e35801678.pdf

This pdf file show the dimensions of the receptacle on page 4. Mating
plugs and SMA adapters for this receptacle can be seen on page 6. I
have seen these on Dlink DWL-650 and Cisco a/b/g cards too.

De Phil, KA1GMN

J. Gordon Beattie, Jr., W2TTT wrote:
> Phil,
>
> Is this the same connector for the WiFi on a Toughbook 29?
>
> 73,
> J. Gordon Beattie, Jr., W2TTT
> 201.314.6964
> <mailto:w2ttt@...> w2ttt@...
> <mailto:w2ttt@...> w2ttt@...
> <mailto:w2ttt@...> w2ttt@...
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>
> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On
Behalf
> Of Phil Williams

> Sent: Monday, 26 December, 2005 11:34
> To: ntms-hsmm@yahoogroups.com; Josh Mercer
> Subject: [ntms-hsmm] Source for Hirose MS-156 Plug
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Phil Williams
Cell: 850.217.8035

[Non-text portions of this message have been removed]

861. Re: [ntms-hsmm] Source for Hirose MS-156 Plug

Yahoo group: DAWG-HSMM
Date: 2005-12-27 20:01:45 UTC
From: Phil Williams
Topic: 851 Message: 861

I have located a MS-156 to female SMA adapter. Pricey!

http://estore.force-elec.com/pricing.asp?p=HIRMS%2D156%2DHRMJ%2D2&c=

De Phil, KA1GMN

Phil Williams wrote:
> Sorry to say that I have never examined the Toughbook 29. Do you have a
> photo of the receptacle in question?
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> I have this receptacle on a Belkin F6D3010 Client card. The spec for the
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862. OT: TCP/IP over AX.25

Yahoo group: DAWG-HSMM
Date: 2006-01-07 11:54:30 UTC
From: Thorsten von Eicken
Topic: 851 Message: 862

This is a little off-topic, but maybe someone can send me a quick pointer. I'm trying to understand how TCP/IP over packet networks work, i.e., how IP is encapsulated in AX.25 and how the layer 2 forwarding is done. I'm finding lots of information on how to configure this and that software package, but no "protocol specification" or similar. Any pointers very much appreciated!
Thorsten

863. Re: [ntms-hsmm] OT: TCP/IP over AX.25

Yahoo group: DAWG-HSMM
Date: 2006-01-07 15:18:51 UTC
From: Paul Pescitelli
Topic: 851 Message: 863

There are a few places to start.

The current JNOS page is a good place to start.
http://www.langelaar.net/projects/jnos2/index2.html

You can also find some usefull nuggets of information in the Linux AX25
Howto
http://www.faqs.org/docs/Linux-HOWTO/AX25-HOWTO.html

Here is a version of the protocol doc for AX25 Packet
http://www.qsl.net/oe8djk/pr4ax25.html

Hope this gets you started.

73 - Paul K4UJ

On 1/7/06, Thorsten von Eicken <tve-yahoo@...> wrote:
>
> This is a little off-topic, but maybe someone can send me a quick
> pointer. I'm trying to understand how TCP/IP over packet networks work,
> i.e., how IP is encapsulated in AX.25 and how the layer 2 forwarding is
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> pointers very much appreciated!
> Thorsten
>
>
>
> SPONSORED LINKS
> North texas real estate<http://groups.yahoo.com/gads?t=ms&k=North+texas+real+estate&w1=N
orth+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5
=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=_o
01Gw977BOX0m-x9DNACQ> North
> texas university<http://groups.yahoo.com/gads?t=ms&k=North+texas+university&w1=North+tex
as+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireles
s+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=o9dCAfz8zd
GIatRo389_yA> North
> texas<http://groups.yahoo.com/gads?t=ms&k=North+texas&w1=North+texas+real+estate&w2=Nort
h+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+ne
tworking&w6=Wireless+digital+communication&c=6&s=179&.sig=DIHU3-WDJPzIu_ln51VavQ> North
> texas football<http://groups.yahoo.com/gads?t=ms&k=North+texas+football&w1=North+texas+r
eal+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+co
mmunication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=eQdemV69Jlw4uV
B2Z61H-g> Wireless
> communication and networking<http://groups.yahoo.com/gads?t=ms&k=Wireless+communication+
and+networking&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=Nort

h+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communicatio
n&c=6&s=179&.sig=hRJ0br81seutr71Edtu2OQ> Wireless
> digital communication<http://groups.yahoo.com/gads?t=ms&k=Wireless+digital+communication
&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+footba
ll&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.s
ig=QuCFxb8Yuv5VN7dy0jrJ6w>
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73 - Paul K4UJ / FS, KP2, KP4, PJ6, PJ7,VP2E, ZF2UJ

[Non-text portions of this message have been removed]

864. Re: [ntms-hsmm] OT: TCP/IP over AX.25

Yahoo group: DAWG-HSMM
Date: 2006-01-07 16:50:20 UTC
From: Phil Williams
Topic: 851 Message: 864

AX.25 Amateur Packet-Radio Link-Layer Protocol

http://www.tapr.org/pub_ax25.html
Special emphasis on paragraph 2.2.4, □PID Field□. Used to identify what upper layer protocol (IP) was contained withing the protocol data unit of the AX.25 frame.
Phil Karn KA9Q □ One of the first PC based implementations of TCP/IP over AX.25. Phil's original NOC TCP/IP package contains excellent reference material.
http://www.ka9q.net/code/ka9qnos/

The KISS protocol allowed PCs to talk directly to terminal node controllers (TNCs) and bypass the TNC software. Facilitated the development of TCP/IP over AX.25.
http://people.qualcomm.com/karn/papers/kiss.html

De Phil, KA1GMN

>
> This is a little off-topic, but maybe someone can send me a quick
> pointer. I'm trying to understand how TCP/IP over packet networks work,
> i.e., how IP is encapsulated in AX.25 and how the layer 2 forwarding is
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> texas university<http://groups.yahoo.com/gads?t=ms&k=North+texas+university&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=o9dCAfz8zdGIatRo389_yA> North
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> texas football<http://groups.yahoo.com/gads?t=ms&k=North+texas+football&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=eQdemV69Jlw4uVB2Z61H-g> Wireless
> communication and networking<http://groups.yahoo.com/gads?t=ms&k=Wireless+communication+and+networking&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=hRJ0br81seutr71Edtu2OQ> Wireless

> digital communication<http://groups.yahoo.com/gads?t=ms&k=Wireless+digital+communication&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas&w4=North+texas+football&w5=Wireless+communication+and+networking&w6=Wireless+digital+communication&c=6&s=179&.sig=QuCFxb8Yuv5VN7dy0jrJ6w>
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[Non-text portions of this message have been removed]

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Phil Williams
Cell: 850.217.8035

[Non-text portions of this message have been removed]

865. FCC announces 2 NPRMs for Amateur Band Plan

Yahoo group: DAWG-HSMM
Date: 2006-01-12 15:55:39 UTC
From: Douglas Kilgore
Topic: 865 Message: 865

The FCC has release two Notice of Petitions Rule Making (NPRM) regarding
Amateur band plans.

RM 11305
http://gullfoss2.fcc.gov/prod/ecfs/retrieve.cgi?native_or_pdf=pdf&id_document=6517982317

RM 11306
http://gullfoss2.fcc.gov/prod/ecfs/retrieve.cgi?native_or_pdf=pdf&id_document=6518181567

It's time for YOU to make YOUR reply and help guide the future of
amateur radio in the United States.

http://www.fcc.gov/cgb/ecfs/

Doug KD5OUG

866. Any HSMM projects going on?

Yahoo group: DAWG-HSMM
Date: 2006-01-17 23:42:53 UTC
From: J. Beadles
Topic: 866 Message: 866

Not much traffic in the past few months. If you are like me, you are fighting winter apathy. Here in Collin County a few of us are working on a Winlink/Telpac installation in the Wiley area, and working with KD5OUG to decide on whether to do another HSMM project for the '06 Wild Ride.

Anybody else got any HSMM projects going?

867. Congradulations Joel!

Yahoo group: DAWG-HSMM
Date: 2006-01-21 05:15:06 UTC
From: Leo
Topic: 867 Message: 867

Congrats to Joel, W5ZN, for being voted as the next ARRL President!
I'm happy hear a member of this group was chosen as
Leo, N5JEP
ARRL EC Lamar County, TX

868. Re: Any HSMM projects going on?

Yahoo group: DAWG-HSMM
Date: 2006-01-21 05:43:25 UTC
From: Leo
Topic: 866 Message: 868

Don't know if this qualifies fully, but about three weeks ago I was able to establish a link from Downtown Paris to W5LL in Brookston about 8 miles on 2.4 GHz using Karlnet firmware to feed an 802.11b Access Point.

The APs that are on the local hospital have excellent range across the area in nearly all directions. The AP is at 768ft MSL or 168 feet above ground level on the top of our Hospital. It's location is also listed on the Google earth's IRLP list as node 3386 N4RAP and Echolink N4RAP-L. The IRLP and Echolink nodes use this AP for Internet access via 802.11b client bridge (Senao CB-3 Deluxe and Rootenna using POE at 40 ft) about 2 blocks north of the hospital.

Also have prospective AP locations near the Paris airport, and Clarksville airport for both locals and hams to use. We (Star~NET Online Systems) have setup 7 AP's in Powderly, 2 in Blossom, and 20 in Paris proper (17 of which are at Paris Junior College) for use by locals and also hams and emergency personnel.

Your probably asking why so many at PJC? Well, the dorm rooms are made like Alcatraz Prison. 18 inch thick walls and two floors with two wings.

Although the system is technically running under part 15, it's a start!

The system boasts a develepment version of the Asterisk phone server which I have yet to dive into. That day will come soon. Another ham in the networking business in this area already has an Asterisk server running for a local business and has setup several Motorola Canopy links. Looking forward to some elmering on this subject.

I have some questions about the old Heartland TV 2.3/2.4Hz? Parabolic Antennas. Anyone tried to use on on 2.4 for and AP or Client Bridge? Other than the down converter having to be scrapped, any suggestion on how to properly measure the distance of the radiator from the parabolic reflector?

I just got an email from Doug Loughmiller, W5BL, about a balloon launch being planned for Clarksville, Texas. My company is going to proved an local AP on 802.11b that has a completley wireless internet link to Paris via 5.8GHz. I'm interested to see just how far this balloon will go. Heard some really good distances acheived in Oklahoma and Kansas launches.

73s
Leo Salas, N5JEP

ARRL EC Lamar County, TX
NETROC (Northeast Texas Radio Operations and Command)
(903) 272-7306 cell
(903) 785-4192 x27 work
n5jep@arrl.net

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@p...> wrote:
>
> Not much traffic in the past few months. If you are like me, you are
> fighting winter apathy. Here in Collin County a few of us are
working
> on a Winlink/Telpac installation in the Wiley area, and working with
> KD5OUG to decide on whether to do another HSMM project for the '06
Wild
> Ride.
>
> Anybody else got any HSMM projects going?
>

869. $99 2.4GHz Spectrum Analyser

Yahoo group: DAWG-HSMM
Date: 2006-02-09 04:20:08 UTC
From: J. Beadles
Topic: 869 Message: 869

Ok, this is pretty neat. The WiSpy is a 2.4GHz receiver in a USB dongle, with associated software for $99.

http://www.metageek.net/

870. Re: [ntms-hsmm] $99 2.4GHz Spectrum Analyser

Yahoo group: DAWG-HSMM
Date: 2006-02-09 12:17:43 UTC
From: Paul Pescitelli
Topic: 869 Message: 870

An even better and cheaper solution is to deploy the WiSpy tools that are
now available from the Kismet Team.

http://www.kismetwireless.net/wispy.shtml

--
73 - Paul K4UJ
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http://www.dx-is.com
http://www.openhsmm.org
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On 2/8/06, J. Beadles <jbeadles@...> wrote:
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> - Visit your group "ntms-hsmm<http://groups.yahoo.com/group/ntms-hsmm>"
> on the web.
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> - To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com<ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>
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> - Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
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871. Re: [ntms-hsmm] $99 2.4GHz Spectrum Analyzer

Yahoo group: DAWG-HSMM
Date: 2006-02-09 23:07:38 UTC
From: John Champa
Topic: 871 Message: 871

Paul,

This requires a Linux OS, right?

John

>From: Paul Pescitelli <dx.k4uj@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: ntms-hsmm@yahoogroups.com
>Subject: Re: [ntms-hsmm] $99 2.4GHz Spectrum Analyser
>Date: Thu, 9 Feb 2006 07:17:43 -0500
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>73 - Paul?? K4UJ
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872. Re: [ntms-hsmm] $99 2.4GHz Spectrum Analyzer

Yahoo group: DAWG-HSMM
Date: 2006-02-10 01:47:08 UTC
From: Paul Pescitelli
Topic: 871 Message: 872

Yes, it requires Linux... I have multiple hard drives that I exchange in my laptop depending on what functionality I need for a given task, ie. one for Windows for Telpac, and one for Linux that is setup specifically for Kismet and Wireless LAN analysis.

Paul

On 2/9/06, John Champa <k8ocl@...> wrote:
> Paul,
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> This requires a Linux OS, right?
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> John
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>
> >From: Paul Pescitelli <dx.k4uj@...>
> >Reply-To: ntms-hsmm@yahoogroups.com
> >To: ntms-hsmm@yahoogroups.com
> >Subject: Re: [ntms-hsmm] $99 2.4GHz Spectrum Analyser
> >Date: Thu, 9 Feb 2006 07:17:43 -0500
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> >http://www.kismetwireless.net/wispy.shtml
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> >73 - Paul K4UJ
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873. Re: [ntms-hsmm] $99 2.4GHz Spectrum Analyzer

Yahoo group: DAWG-HSMM
Date: 2006-02-10 17:48:56 UTC
From: John Champa
Topic: 871 Message: 873

Neat approach! Thanks.

>From: Paul Pescitelli <dx.k4uj@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: ntms-hsmm@yahoogroups.com
>Subject: Re: [ntms-hsmm] $99 2.4GHz Spectrum Analyzer
>Date: Thu, 9 Feb 2006 20:47:08 -0500
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> > >Reply-To: ntms-hsmm@yahoogroups.com

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> > >Subject: Re: [ntms-hsmm] $99 2.4GHz Spectrum Analyser
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874. Article on Communications Failures - VOIP Shines

Yahoo group: DAWG-HSMM
Date: 2006-02-17 14:42:56 UTC
From: Douglas Kilgore
Topic: 874 Message: 874

From the ARES E-Letter of February 15, 2006

+ Government Perspective of Communication Failures Not to Be Missed

The article "Missed Signals" appears in this month's issue of "Government Executive Magazine." It should be required reading for anyone involved in emergency communications, but especially ARES leaders. We can't help solve the problems faced by our served agencies until we understand them. See <http://www.govexec.com/features/0206-01/0206-01s2.htm> -- Les Rayburn, N1LF, ARES, SHARES, SKYWARN, ARRL EmComm Level 3 Certified, Official Emergency Station

875. HSMM Programming at Hamcom 2006

Yahoo group: DAWG-HSMM
Date: 2006-02-17 15:19:12 UTC
From: J. Beadles
Topic: 875 Message: 875

It's time for me to be putting together the HSMM presentations for Hamcom 2006. Hamcom is being held in Plano, TX, on June 9 and 10. Is anybody on the list interested in having any HSMM presentations?

Based on comments generated on this list last November, I am looking for volunteers for the following:

1. Use of HSMM (networking) by the Red Cross, Salvation Army
2. WiFi radio performance
3. Basic TCP/IP networking
4. More D/FW D-Star

So far, I have:

Introduction to HSMM - John Beadles, N5OOM
Possibly HSMM at 2005 Wild Ride (Doug, you still up for doing this?)

Last year, we had:

Dallas D-Star - Jim McClellan, N5MU
HSMM: Packaging for Outdoor Use - Tony Campbell, W5ADC
HSMM: Using the Linksys WRT54G - John Beadles, N5OOM
Introduction to HSMM - John Beadles, N5OOM

Anybody want anything else I'm missing? At this time, I'm not planning on doing the "Using the linksys WRT54G" program until somebody asks for it. I'll ask Tony if he wants to redo the "Packaging for Outdoor Use" presentation.

876. RE: [ntms-hsmm] Rootenna article Nit-picking time...

Yahoo group: DAWG-HSMM
Date: 2006-02-17 15:26:09 UTC
From: Joe B. Dorn
Topic: 841 Message: 876

I noticed the following minor error in your article..

The I sat the circuit board on the nylon standoffs and secured the circuit board to the cable tie mounts with small cable ties.

I believe 'The' should be 'Then'.

Pardon the editor in me.

BTW, I would like to visit one of your activities when the system is in use. Any anticipated dates and locations would be appreciated.

Joe Dorn, W5VEX, Belton, Texas

Trustee W5BEC 147.140 (PL 123)

Bell County ARES AEC

(254) 939-5918

Instructor & Mentor ARRL EC Courses (Over 150 students and counting)

Instructor: United States Power Squadrons' Weather Course

Central Texas Trauma Council Amateur Radio Coordinator

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of J. Beadles
Sent: Tuesday, November 29, 2005 22:55
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Rootenna article

I finally finished this article on our flexible rootenna design. I'd appreciate any editorial comments.

http://www.n5oom.org/hsmm/rootenna_project.htm

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<http://docs.yahoo.com/info/terms/> Terms of Service.

[Non-text portions of this message have been removed]

877. Re: Rootenna article Nit-picking time...

Yahoo group: DAWG-HSMM
Date: 2006-02-17 15:38:25 UTC
From: J. Beadles
Topic: 841 Message: 877

--- In ntms-hsmm@yahoogroups.com, "Joe B. Dorn" <jbdash@...> wrote:
>
> I noticed the following minor error in your article..
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>
> The I sat the circuit board on the nylon standoffs and secured the
circuit
> board to the cable tie mounts with small cable ties.
>
>
>
> I believe 'The' should be 'Then'.
>
>
>
> Pardon the editor in me.

<grin> Now I just have to remember to fix it!

>
> BTW, I would like to visit one of your activities when the system
is in use.
> Any anticipated dates and locations would be appreciated.

How convenient! Be sure to read my next msg, which I should have out
momentarily...

> Joe Dorn, W5VEX, Belton, Texas
>
> Trustee W5BEC 147.140 (PL 123)
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> Bell County ARES AEC
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>
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> <mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>
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> <http://docs.yahoo.com/info/terms/> Terms of Service.
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878. 2006 Wild Ride

Yahoo group: DAWG-HSMM
Date: 2006-02-17 15:57:17 UTC
From: J. Beadles
Topic: 878 Message: 878

The 3rd annual Richardson Wild Ride bicycle rally on Saturday, May 20, 2006. For the third time, we'd like to use this event as an HSMM practice event. The purpose of this activity is to provide technology training and operating practice to hams using HSMM equipment for similar activities. This simulates setting up ad-hoc networks in the field for emergency response events.

The event has one start-stop location and 4 rest stops. What we've done in the past is to provide 802.11 connections to these rest stops. Due to changes in the availability of certain facilities, we may not be able to do this. So, this year I'd like to integrate multiple methods including 802.11, D-Star, Winlink, APRS and anything else anyone can think of.

In years past, we've experimented with webcams and netmeeting. This year, I'd like to:

- Practice with winlink email transmission, both over VHF and over 802.11, D-Star links
- Attempt to make certain webcam methods more reliable
- Solidify & demonstrate message handling practice between the nest control and the rest stops

For those who are interested, I'm expecting to run some sessions in advance to drill with using the tools and message practice.

I'll be managing the HSMM activty for Doug Kilgore, KD5OUG, who will be managing ham participation as a whole. Anybody interested should contact me either on this list or at n5oom@....

879. Re: [ntms-hsmm] 2006 Wild Ride

Yahoo group: DAWG-HSMM
Date: 2006-02-17 16:06:03 UTC
From: n5byl@comcast.net
Topic: 878 Message: 879

Would like to support any way I can to aid you in details related to Winlink stuff.
Bruce
---------- Original message ----------
From: "J. Beadles" <jbeadles@...>
> The 3rd annual Richardson Wild Ride bicycle rally on Saturday, May
> 20, 2006. For the third time, we'd like to use this event as an HSMM
> practice event. The purpose of this activity is to provide
> technology training and operating practice to hams using HSMM
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> multiple methods including 802.11, D-Star, Winlink, APRS and anything
> else anyone can think of.
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>
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> contact me either on this list or at n5oom@....
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880. Re: 2006 Wild Ride

Yahoo group: DAWG-HSMM
Date: 2006-02-18 01:45:48 UTC
From: w5adc
Topic: 878 Message: 880

Count on me for support.

Tony
W5ADC

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@...> wrote:
>
> The 3rd annual Richardson Wild Ride bicycle rally on Saturday, May
> 20, 2006. For the third time, we'd like to use this event as an
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> practice event. The purpose of this activity is to provide
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> contact me either on this list or at n5oom@...
>

881. Re: 2006 Wild Ride

Yahoo group: DAWG-HSMM
Date: 2006-02-20 21:03:16 UTC
From: J. Beadles
Topic: 878 Message: 881

Thank you Bruce & Tony! You guys are invaluable.

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@...> wrote:
>
> The 3rd annual Richardson Wild Ride bicycle rally on Saturday, May
> 20, 2006. For the third time, we'd like to use this event as an
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>

882. Wild Ride Bike Rally 2006 - May 20

Yahoo group: DAWG-HSMM
Date: 2006-02-21 05:06:03 UTC
From: Douglas Kilgore
Topic: 882 Message: 882

Put this date on your calendar!! Saturday, May 20, 2006

That's the date of the Richardson Regional Medical Center's 2006 Wild Ride Bike Rally. The route of this 62 mile rally will leave from Richardson, travel northeast over Lake Lavon dam to Josephine, TX and then return.

Ham operators are needed for supply wagons, rest stops, SAG wagons and rovers. Due to the distances involved, radios with minimum of 25 watts VHF and a good antenna are needed. Hams with APRS in a truck that can be used for a SAG wagon would be especially valuable.

Again this year we will use High Speed MultiMedia (HSMM) to upload webcam and digital still pictures to a internet web site on a near realtime basis. In addition to 802.11b, we expect to experiment with D-STAR and other digital modes. The digital camera photographer does not have to be a licensed ham so an unlicensed family member could fill that position.

Please volunteer early to take part in the planning and necessary training. Contact Doug Kilgore KD5OUG (kd5oug@...) or Ph 972-231-8539 Richardson Wireless Klub

883. Article: Additional unlicensed spectrum in unused broadcast TV channels

Yahoo group: DAWG-HSMM
Date: 2006-02-22 16:36:31 UTC
From: J. Beadles
Topic: 883 Message: 883

http://news.zdnet.com/2100-1035_22-6041585.html?tag=nl.e622

884. RE: [ntms-hsmm] 2006 Wild Ride

Yahoo group: DAWG-HSMM
Date: 2006-03-05 16:41:57 UTC
From: John Champa
Topic: 878 Message: 884

Will somebody be taking pics of the training sessions?
We'd like to publish them, or at least post them on web pages.

Thanks,
John - K8OCL

>From: "J. Beadles" <jbeadles@...>
>Reply-To: ntms-hsmm@yahoogroups.com
>To: ntms-hsmm@yahoogroups.com
>Subject: [ntms-hsmm] 2006 Wild Ride
>Date: Fri, 17 Feb 2006 15:57:17 -0000
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885. Re: 2006 Wild Ride

Yahoo group: DAWG-HSMM
Date: 2006-03-08 15:35:17 UTC
From: J. Beadles
Topic: 878 Message: 885

I'm sure we can do that.

--- In ntms-hsmm@yahoogroups.com, "John Champa" <k8ocl@...> wrote:
>
> Will somebody be taking pics of the training sessions?
> We'd like to publish them, or at least post them on web pages.
>
> Thanks,
> John - K8OCL
>
>
> >From: "J. Beadles" <jbeadles@...>
> >Reply-To: ntms-hsmm@yahoogroups.com
> >To: ntms-hsmm@yahoogroups.com
> >Subject: [ntms-hsmm] 2006 Wild Ride
> >Date: Fri, 17 Feb 2006 15:57:17 -0000
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886. Some progress with the NSLU2

Yahoo group: DAWG-HSMM
Date: 2006-03-08 15:41:52 UTC
From: J. Beadles
Topic: 886 Message: 886

It appears that somebody is making progress using the NSLU2. The NSLU2 is a Linksys USB network appliance. That is, you connect USB hard drives to it, and it publishes them on the local ethernet network. The NSLU2 is particularly interesting because it runs on Linux and has internal hardware for a serial connection.

On another list, WA7NWP provides a link to http://www.wetnet.net/, which has a version of OpenEmbedded Linux with AX.25 support. This could be used to create standalone APRS digipeaters or Winlink Telpac nodes. Combined with a WRT54G as a bridge, this would provide for a really cheap, remote packet stations.

887. Antenna Gain Measurement Party, WA5VJB’s QT H

Yahoo group: DAWG-HSMM
Date: 2006-03-11 23:19:55 UTC
From: Douglas Kilgore
Topic: 887 Message: 887

Here's an opportunity to measure the gain of your HSMM antenna. Kent Britain, WA5VJB, is holding his annual NTMS antenna measurement party at his QTH in Grand Prairie on Sunday, Apr 30.

Please contact Kent at wa5vjb@... to let him know that you will be coming. You will need to make sure that he has a compatible connector for some of the Reverse Polarity antenna connectors.

Kent has a web page at http://wa5vjb.com Spec sheets for the PC board etched antennas he manufactures is available there online.

Check the North Texas Microwave Society web page for latest details. http://ntms.org

Doug Kilgore KD5OUG

888. 802.11 and Snow

Yahoo group: DAWG-HSMM
Date: 2006-03-20 13:05:17 UTC
From: Bill
Topic: 888 Message: 888

A week ago last friday, we had a big snow storm that dumped abt 12" here. My internet connection is wireless 802.11b and the AP is abt 15 mile away. I noticed that during the snow storm that signal stengths were stronger than normal by abt 2 db. Any ideas why?

Thanks
Bill WA0YPL DM37dt

889. Re: [ntms-hsmm] 802.11 and Snow

Yahoo group: DAWG-HSMM
Date: 2006-03-20 15:17:03 UTC
From: Keith Berry
Topic: 888 Message: 889

Not exactly knowing the full atmospheric conditions
during your signal improvement, a couple of things
come to mind.

Humidity differences will affect the signal and sense
it is snow, it may not have produced enough blinding
to create fade.

My main thought would be you were seeing a reflected
signal from the snow and a improvement in the signal
that is normally lost from absorption of objects on
the ground.

Other ideas??

Keith

--- Bill <wa0ypl@...> wrote:

A week ago last friday, we had a big snow storm that
dumped abt 12"
here. My internet connection is wireless 802.11b and
the AP is abt 15
mile away. I noticed that during the snow storm that
signal stengths
were stronger than normal by abt 2 db. Any ideas why?

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890. DC to DC Power Supply for Power-Over-Ethernet

Yahoo group: DAWG-HSMM
Date: 2006-03-23 04:59:41 UTC
From: Douglas Kilgore
Topic: 890 Message: 890

RUN, DON'T WALK to your nearest Radio Shack to pickup a DC - DC power adapter to work with power-over-Ethernet. It's on close-out sale for $30. It has 11 - 16 VDC in for 12- 27 VDC out 3.75 amps. The output is adjustable in 1 volt steps. It's called a DC Power Adapter Cat # 273-1827. It is designed to power a laptop computer.

http://www.radioshack.com/search/index.jsp?kwCatId=&kw=273-1827

When using power-over-Ethernet on CAT-5 cable, there is a significant voltage drop on long runs. For example, if a 12 volt access point draws 1 amp, over a 300 ft CAT-5 Ethernet cable there would be a voltage drop of 3.8 volts. 15.8 volts would be required at the input end to compensate.

Here's a POE Calculator:
http://www.gweep.net/%7Esfoskett/tech/poecalc.html

Follow the links on that page for instructions on how to build a POE connector.

Good hunting.

Doug Kilgore KD5OUG

891. Article: positioning based on Wifi access points

Yahoo group: DAWG-HSMM
Date: 2006-03-31 22:17:06 UTC
From: J. Beadles
Topic: 891 Message: 891

http://lbs.gpsworld.com/gpslbs/article/articleDetail.jsp?id=316541

892. Re: [NTMS] DC - DC Adjustable Power Supply

Yahoo group: DAWG-HSMM
Date: 2006-04-03 21:40:00 UTC
From: Douglas Kilgore
Topic: 892 Message: 892

For Power-over-ethernet on long runs.

Doug

n5pgh@... wrote:

>Correction, Doug. They are now on closeout for $14.95. Got one this morning. Thanks for clueing us in. 73 Roger N5PGH
> ---------- Original message ----------
>From: Douglas Kilgore <douglas.kilgore@...>
>
>
>>Here's info on the Radio Shack DC - DC adjustable power supply requested
>>at Saturday's meeting.
>>
>>It's on close-out sale for $30. It has 11 - 16 VDC in for 12- 27 VDC out 3.75
>>amps. The output is
>>adjustable in 1 volt steps. It's called a DC Power Adapter Cat #273-1827. It is
>>designed to power a laptop computer.
>>
>>http://www.radioshack.com/search/index.jsp?kwCatId=&kw=273-1827
>>
>>
>>Doug Kilgore KD5OUG
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>

[Non-text portions of this message have been removed]

893. Another non-ham communications emergency comms solution

Yahoo group: DAWG-HSMM
Date: 2006-04-17 02:15:22 UTC
From: J. Beadles
Topic: 893 Message: 893

http://www.instructables.com/ex/i/918807081B9C10299AD7001143E7E506/?ALLSTEPS

Thanks to N5TIM for finding this...

894. New HSMM Gear Recommendation

Yahoo group: DAWG-HSMM
Date: 2006-04-19 20:01:26 UTC
From: John Champa
Topic: 894 Message: 894

Greetings:

The old LinkSys WRT-54Gv1 @ k8ocl/hsmm definitely needs to be replaced, if only because every config change is problematic. Price isn't the issue as much as we'd like to have something which is easy to use and dependable.

Our two choices have come down to:

LinkSys WRT-54GX4
Cisco 871W

Anyone on the list have any comparitive experience with these two units?

Thanks,
John

895. [Fwd: [NTMS] Low-Cost 2.4 GHz Spectrum Analyzer]

Yahoo group: DAWG-HSMM
Date: 2006-04-19 21:48:11 UTC
From: Douglas Kilgore
Topic: 895 Message: 895

-------- Original Message --------
Subject: [NTMS] Low-Cost 2.4 GHz Spectrum Analyzer
Date: Wed, 19 Apr 2006 13:53:20 -0500
From: Scott Armstrong <scottarm@...>
To: <ntms@...>

Saw this in the ARRL Contest Rate Sheet for April 19, 2006.

Microwave and wireless data mavens should look into the article "Low-Cost 2.4 GHz Spectrum Analyzer" in the April 2006 issue of Circuit Cellar Ink (a terrific magazine, by the way). It's available on-line at http://www.circuitcellar.com.

Enjoy,
Scott AA5AM

[Non-text portions of this message have been removed]

896. 06 Wild Ride - Network Testing

Yahoo group: DAWG-HSMM
Date: 2006-04-23 01:14:09 UTC
From: J. Beadles
Topic: 896 Message: 896

Today I was unexpectedly able to hook up with Fred Varian WD5ERD, Jim (N5MIJ) & Lisa (K5LRM) McClellan to test some D-Star equipment for rest stops 2 & 3. My concern has generally been due to distance and terrain between the rest stops and the Dallas digital repeater in downtown Dallas. Initial tests seem to show that it will work. If so, this would dramatically reduce the amount of equipment we would need to make this work.

We're going back out to test everything out in its' actual operating configuration. If anybody would like to come out to particpate, you are welcome to do so. We'll be meeting at Big Daddy's BBQ, on 78 & 205, just east of Lavon at 12:30 Sunday Afternoon. This is just south of rest stop 2. Talk in will be on the 147.18 repeater, pl 107.2 A map to the area is here:

http://www.n5oom.org/2005_wild_ride/aprs/05_wild_ride_whole_route.png

897. Microtik OS Users Meeting in Dallas May 4-5

Yahoo group: DAWG-HSMM
Date: 2006-04-23 04:04:50 UTC
From: Douglas Kilgore
Topic: 897 Message: 897

There is a Microtik Users Meeting in Dallas on May 4-5. Microtik has a small small operating system and products that are used wireless routing by ISPs.

http://mum.mikrotik.com/?go=agenda

Information on products is available at

http://www.mikrotik.com/index.html

Doug KD5OUG

898. Re: [ntms-hsmm] 06 Wild Ride - Network Testing

Yahoo group: DAWG-HSMM
Date: 2006-04-23 12:54:40 UTC
From: Paul Pescitelli
Topic: 896 Message: 898

When you have this working and all the dust has settled it would be nice to have a version of the map that showed the D-Star locations and a short wripteup on what the team did. We could then put this up on the ARRL-HSMM site as reference material.

regards,
Paul - K4UJ

On 4/22/06, J. Beadles <jbeadles@...> wrote:
> Today I was unexpectedly able to hook up with Fred Varian WD5ERD, Jim
> (N5MIJ) & Lisa (K5LRM) McClellan to test some D-Star equipment for rest
> stops 2 & 3. My concern has generally been due to distance and terrain
> between the rest stops and the Dallas digital repeater in downtown
> Dallas. Initial tests seem to show that it will work. If so, this
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> ---
>

900. [Fwd: [NTMS] Antenna party at QTH of WA5VJB]

Yahoo group: DAWG-HSMM
Date: 2006-04-27 15:07:00 UTC
From: Douglas Kilgore
Topic: 900 Message: 900

HSMMers:
Here an opportunity to test your Wifi antenna. Antenna party at WA5VJB
Kent Britain's begins at 1:00pm Sunday, Apr 30. Let him know you are
coming and what type of connector you have.

Doug Kilgore KD5OUG

WA5VJB's QTH
<http://maps.google.com/maps?f=q&hl=en&q=+1626+Vineyard+Road+,+Grand+Prairie,+TX&ll=32.671062,-97.027645&spn=0.016076,0.042915&om=1>

Directions To 1626 Vineyard Road Grand Prairie

>From the West

Take I20 to Great SouthWest Parkway
Exit Great SouthWest but continue straigth on the I20 access road
about 1 mile to Mathew Road
Right on Mathew
1/3 rd mile to Vineyard Road Take a left.
I'm about 10 houses down on the left (North Side)

>From the East

Take I20 to Great SouthWest Parkway
As you exit, immediately take the U turn lane to the left.
Head back East on the I20 access road about 1 mile
to Mathew Road.
Right on Mathew
1/3 rd mile to Vineyard Road Take a left.
I'm about 10 houses down on the left (North Side)

I'll have 972.849.0235 with me if you get lost.

Kent

-------- Original Message --------
Subject: [NTMS] Antenna party at QTH of WA5VJB
Date: Wed, 26 Apr 2006 23:03:47 -0500
From: Kent Britain <wa5vjb@...>
To: NTMS <ntms@...>
References:
<FE939659AE3EC24F8715BBDB742F790111B537@...>

I'll take care of the soft drinks, Al will take care of the brews.

We'll have snacks and a party tray from Sam's or something.
You are quite welcome to bring along chips, snacks, etc.

Doug, don't forget your reverse pin adapters for the WiFi lads.
I've also upgraded my multiplier for 2400-2480 MHz measurements
for their antennas. The WiFi bunch is quite welcome.

I've been working on cleaning out the garage, so I'll have a variety of
stuff out that's looking for a good home. And a few items with very
reasonable price tags. You're welcome to make a fleamarket out
of this event as well.

So far the requests are for 900, 1296, 2304, 2400, and 10,000 MHz.

See ya Sunday, Kent

901. Re: 06 Wild Ride - Network Testing

Yahoo group: DAWG-HSMM
Date: 2006-05-04 04:01:42 UTC
From: J. Beadles
Topic: 896 Message: 901

Yep. Actually, I need to finish the report from last year's attempt.
However, if you go here:

http://www.n5oom.org/hsmm/index.htm

And download the 2005 Hamcom "Intro to HSMM" presentation, I have
some extensive information towards the end.

--- In ntms-hsmm@yahoogroups.com, "Paul Pescitelli" <dx.k4uj@...>
wrote:
>
> When you have this working and all the dust has settled it would be
> nice to have a version of the map that showed the D-Star locations
and
> a short wripteup on what the team did. We could then put this up on
> the ARRL-HSMM site as reference material.
>
> regards,
> Paul - K4UJ
>
> On 4/22/06, J. Beadles <jbeadles@...> wrote:
> > Today I was unexpectedly able to hook up with Fred Varian WD5ERD,
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> > would dramatically reduce the amount of equipment we would need
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> > configuration. If anybody would like to come out to particpate,
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902. nmo wifi

Yahoo group: DAWG-HSMM
Date: 2006-05-04 05:25:41 UTC
From: Wes johnston
Topic: 902 Message: 902

Anyone got any suggestions for a NMO 2.4gig antenna? I'd like to mount a NMO on the roof of our comms trailer so that one of the wrt54g antennas is inside the trailer mounted to the inside ceiling, and the other is outside. The trailer is aluminum.

Antenna under consideration is http://www.hyperlinktech.com/web/hg2405unmo.php a nmo wire with two coils in the center. It's so cheap, and can surely handle the occasional bout with a tree limb. Is it even worth trying?

Also http://www.hyperlinktech.com/web/hg2409u.php but it is an N type mount. Anyone with experience with this one? Should I just get a NMO to N adapter cap? It's 20" tall and I'm not so sure it will do so well with low tree limbs.

Any other suggestions?

I just looked at the 2005 wild ride PPT, and geez it'd be slick to mount an A/P on a parabolic grid up kinda high on our trailer's crank up tower.

Wes

903. RE: [ntms-hsmm] nmo wifi

Yahoo group: DAWG-HSMM
Date: 2006-05-04 14:08:54 UTC
From: Daron J. Wilson
Topic: 902 Message: 903

Are you running a hacked version of the software on this router? My understanding is that the diversity settings for dual antennas do not do well when the antennas cover two different areas. As I understand the diversity use of dual antennas, they both need to be hearing the same thing to allow the algorithm to compare signals and select the best antenna.

That being said, I've got the N mount unit on top of work truck on a bracket. It works well, but has been whacked by branches and such many times, bending the bracket. The NMO mount whip is a fairly good solution, I've used that on a different vehicle while netstumbling. Keep in mind that the more 'gain' you have on these antennas, the flatter the signal pattern is. I also have an 11 db whip, but I've found that driving down the highway I can see an access point, but just pulling over to the side of the road where the car leans over 10 degrees is enough to lose it again.

Also, putting it on the roof of the fan is a good general use idea. I would sure plan to get it up in the air 20 feet or so once parked however, I've seen interference from the 2.4Ghz gear back into the public safety radios, and also the pattern from the ground plane of that com van is going to extend out well in the immediate area.right over every one's heads. A bit of elevation and a low gain antenna would blanket the immediate area better.

Good luck!

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Wes johnston
Sent: Wednesday, May 03, 2006 10:26 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] nmo wifi

Anyone got any suggestions for a NMO 2.4gig antenna? I'd like to mount a NMO on the roof of our comms trailer so that one of the wrt54g antennas is inside the trailer mounted to the inside ceiling, and the other is outside. The trailer is aluminum.

Antenna under consideration is
http://www.hyperlinktech.com/web/hg2405unmo.php a nmo wire with two coils in

the center. It's so cheap, and can surely handle the occasional bout with a

tree limb. Is it even worth trying?

Also http://www.hyperlinktech.com/web/hg2409u.php but it is an N type mount.

Anyone with experience with this one? Should I just get a NMO to N adapter cap? It's 20" tall and I'm not so sure it will do so well with low tree

limbs.

Any other suggestions?

I just looked at the 2005 wild ride PPT, and geez it'd be slick to mount an A/P on a parabolic grid up kinda high on our trailer's crank up tower.

Wes

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* To unsubscribe from this group, send an email to: ntms-hsmm-unsubscribe@yahoogroups.com <mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>

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[Non-text portions of this message have been removed]

904. Re: [ntms-hsmm] nmo wifi

Yahoo group: DAWG-HSMM
Date: 2006-05-04 15:35:24 UTC
From: Douglas Kilgore
Topic: 902 Message: 904

Here's some ideas about the type of antennas for use on a comm van.

First, it's on a trailer so operation will be from a stationary position. Will you be receiving an internet connection from the outside? If so, a directional antenna with higher gain will allow you greater distance from the source. Also, if you are operating in a crowded Wifi environment, the directional antenna will allow you to better eliminate some interfering signals.

Line-of-sight is important with WiFi signals and that usually means getting above surrounding objects. Therefore mounting the antenna high is desirable. But mounting an WiFi antenna high and then using a long coax to bring the signal down is counter productive because of the signal loss in coax. It's also expensive.

The solution is to mount the access point on the antenna high up in a weather proof box on a mast that can be attached to the side of your comm van. Use Power-over-Ethernet to power the device using inexpensive Cat-5 wire. Inside the trailer, use an inexpensive router for a wired feed to multiple computers if needed or buy a second wifi access point for the interior of the van. They're cheap. Operate them on a separate channel and with a different IP address, ie, 192.168.2....

We've used a WRT54G with Sveasoft Alchemy in WDS mode. One antenna port was connected to a directional antenna pointing to the internet connection about 1000 ft away. The second port had an omni antenna to distribute the signal around the immediate area.

In our endeavors we started with access points in a weatherproof box separate from the antenna but eventually we evolved to using the Pacific Wireless Rootennas where the access point is mounted inside of the antenna. http://www.pacwireless.com/products/client.shtml You can punch the aluminum backpanel for an "N" connector for a second antenna if desired.

Good luck on your endeavors.

Doug Kilgore KD5OUG
kd5oug@...
Richardson TX

Wes johnston wrote:

>Anyone got any suggestions for a NMO 2.4gig antenna? I'd like to mount a
>NMO on the roof of our comms trailer so that one of the wrt54g antennas is
>inside the trailer mounted to the inside ceiling, and the other is outside.
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>Wes
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>Yahoo! Groups Links
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905. Re: [ntms-hsmm] nmo wifi

Yahoo group: DAWG-HSMM
Date: 2006-05-04 19:58:58 UTC
From: Wes Johnston
Topic: 902 Message: 905

We will soon have direct PC satellite internet (or whatever they call it this week) mounted on the roof of the trailer. I'll have a wrt mounted on the inside of the roof of the comms trailer with an antenna poking thru the roof to serve laptops in the vicinity of the comms trailer. The stock wrt antenna will be hanging down from the cieling inside. If I need to go a great distance, I'll mount another wrt inside a weathproof box on top of the tower with a parabolic grid or something like that.

Thanks for hte tips though... but I was looking more for info about the durability of some antennas.

wes
----- Original Message -----
From: "Douglas Kilgore" <douglas.kilgore@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Thursday, May 04, 2006 11:35 AM
Subject: Re: [ntms-hsmm] nmo wifi

Here's some ideas about the type of antennas for use on a comm van.

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Doug Kilgore KD5OUG
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>Yahoo! Groups Links
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Yahoo! Groups Links

906. Comet HSMM antennas

Yahoo group: DAWG-HSMM
Date: 2006-05-04 21:53:59 UTC
From: J. Beadles
Topic: 906 Message: 906

Well isn't that a hoot... Comet has an HSMM specific line of antennas now.

http://www.cometantenna.com/products.php?CatID=1&famID=5&childID=12

907. Re: [ntms-hsmm] Comet HSMM antennas

Yahoo group: DAWG-HSMM
Date: 2006-05-04 22:21:59 UTC
From: Walt DuBose
Topic: 906 Message: 907

They have been selling these for over a year now. Fab-Corp has been advertising them for quite a while.

Comet/NCG have been selling commercial antennas for many years.

Walt/K5YFW

J. Beadles wrote:
> Well isn't that a hoot... Comet has an HSMM specific line of antennas
> now.
>
> http://www.cometantenna.com/products.php?CatID=1&famID=5&childID=12
> <http://www.cometantenna.com/products.php?CatID=1&famID=5&childID=12>
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> SPONSORED LINKS
> North texas real estate
> <http://groups.yahoo.com/gads?t=ms&k=North+texas+real+estate&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas+football&w4=Wireless+communication+and+networking&w5=Wireless+digital+communication&c=5&s=162&.sig=Y8Y7gU69y_fXh1yTu-MlWw>
> North texas university
> <http://groups.yahoo.com/gads?t=ms&k=North+texas+university&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas+football&w4=Wireless+communication+and+networking&w5=Wireless+digital+communication&c=5&s=162&.sig=p5h-KdWZ6Vqj_GzRQKZzbw>
> North texas football
> <http://groups.yahoo.com/gads?t=ms&k=North+texas+football&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas+football&w4=Wireless+communication+and+networking&w5=Wireless+digital+communication&c=5&s=162&.sig=H-z2NGDaGE5IpuW4DTYwzg>
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> Wireless communication and networking
> <http://groups.yahoo.com/gads?t=ms&k=Wireless+communication+and+networking&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas+football&w4=Wireless+communication+and+networking&w5=Wireless+digital+communication&c=5&s=162&.sig=SfersSpjxQQvdLDsTadqpA>
> Wireless digital communication
> <http://groups.yahoo.com/gads?t=ms&k=Wireless+digital+communication&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas+football&w4=Wireless+communication+and+networking&w5=Wireless+digital+communication&c=5&s=162&.sig=gNlWVQyvBHc4FE3aDGYknQ>
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>
> YAHOO! GROUPS LINKS
>

> * Visit your group "ntms-hsmm
> <http://groups.yahoo.com/group/ntms-hsmm>" on the web.
>
> * To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
> <mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
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>

908. Re: [ntms-hsmm] nmo wifi

Yahoo group: DAWG-HSMM
Date: 2006-05-04 22:32:32 UTC
From: Douglas Kilgore
Topic: 902 Message: 908

I'm envious.....

Doug

Wes Johnston wrote:

>We will soon have direct PC satellite internet (or whatever they call it
>this week) mounted on the roof of the trailer. I'll have a wrt mounted on
>the inside of the roof of the comms trailer with an antenna poking thru the
>roof to serve laptops in the vicinity of the comms trailer. The stock wrt
>antenna will be hanging down from the cieling inside. If I need to go a
>great distance, I'll mount another wrt inside a weathproof box on top of the
>tower with a parabolic grid or something like that.
>
>Thanks for hte tips though... but I was looking more for info about the
>durability of some antennas.
>
>wes
>----- Original Message -----
>From: "Douglas Kilgore" <douglas.kilgore@...>
>To: <ntms-hsmm@yahoogroups.com>
>Sent: Thursday, May 04, 2006 11:35 AM
>Subject: Re: [ntms-hsmm] nmo wifi
>
>
>Here's some ideas about the type of antennas for use on a comm van.
>
>First, it's on a trailer so operation will be from a stationary
>position. Will you be receiving an internet connection from the
>outside? If so, a directional antenna with higher gain will allow you
>greater distance from the source. Also, if you are operating in a
>crowded Wifi environment, the directional antenna will allow you to
>better eliminate some interfering signals.
>
>Line-of-sight is important with WiFi signals and that usually means
>getting above surrounding objects. Therefore mounting the antenna high
>is desirable. But mounting an WiFi antenna high and then using a long
>coax to bring the signal down is counter productive because of the
>signal loss in coax. It's also expensive.
>
>The solution is to mount the access point on the antenna high up in a
>weather proof box on a mast that can be attached to the side of your
>comm van. Use Power-over-Ethernet to power the device using inexpensive
>Cat-5 wire. Inside the trailer, use an inexpensive router for a wired
>feed to multiple computers if needed or buy a second wifi access point
>for the interior of the van. They're cheap. Operate them on a separate

>channel and with a different IP address, ie, 192.168.2....
>
>We've used a WRT54G with Sveasoft Alchemy in WDS mode. One antenna port
>was connected to a directional antenna pointing to the internet
>connection about 1000 ft away. The second port had an omni antenna to
>distribute the signal around the immediate area.
>
>In our endeavors we started with access points in a weatherproof box
>separate from the antenna but eventually we evolved to using the Pacific
>Wireless Rootennas where the access point is mounted inside of the
>antenna. http://www.pacwireless.com/products/client.shtml You can
>punch the aluminum backpanel for an "N" connector for a second antenna
>if desired.
>
>Good luck on your endeavors.
>
>Doug Kilgore KD5OUG
>kd5oug@...
>Richardson TX
>
>
>
>Wes johnston wrote:
>
>
>
>>Anyone got any suggestions for a NMO 2.4gig antenna? I'd like to mount a
>>NMO on the roof of our comms trailer so that one of the wrt54g antennas is
>>inside the trailer mounted to the inside ceiling, and the other is outside.
>>The trailer is aluminum.
>>
>>Antenna under consideration is
>>http://www.hyperlinktech.com/web/hg2405unmo.php a nmo wire with two coils
>>in
>>the center. It's so cheap, and can surely handle the occasional bout with
>>a
>>tree limb. Is it even worth trying?
>>
>>Also http://www.hyperlinktech.com/web/hg2409u.php but it is an N type
>>mount.
>>Anyone with experience with this one? Should I just get a NMO to N adapter
>>cap? It's 20" tall and I'm not so sure it will do so well with low tree
>>limbs.
>>
>>Any other suggestions?
>>
>>I just looked at the 2005 wild ride PPT, and geez it'd be slick to mount an
>>A/P on a parabolic grid up kinda high on our trailer's crank up tower.
>>
>>Wes

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909. Re: [ntms-hsmm] nmo wifi

Yahoo group: DAWG-HSMM
Date: 2006-05-04 22:24:48 UTC
From: Walt DuBose
Topic: 902 Message: 909

Good luck in pointing your antenna...I'd like to know how you make out and what satellite ISP you are using.

We use StarBand and it is hard to point.

Walt/K5YFW

Wes Johnston wrote:
> We will soon have direct PC satellite internet (or whatever they call it
> this week) mounted on the roof of the trailer. I'll have a wrt mounted on
> the inside of the roof of the comms trailer with an antenna poking thru the
> roof to serve laptops in the vicinity of the comms trailer. The stock wrt
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> great distance, I'll mount another wrt inside a weathproof box on top of
> the
> tower with a parabolic grid or something like that.
>
> Thanks for hte tips though... but I was looking more for info about the
> durability of some antennas.
>
> wes
> ----- Original Message -----
> From: "Douglas Kilgore" <douglas.kilgore@...>
> To: <ntms-hsmm@yahoogroups.com>
> Sent: Thursday, May 04, 2006 11:35 AM
> Subject: Re: [ntms-hsmm] nmo wifi
>
>
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>
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>
> We've used a WRT54G with Sveasoft Alchemy in WDS mode. One antenna port
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> connection about 1000 ft away. The second port had an omni antenna to
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> In our endeavors we started with access points in a weatherproof box
> separate from the antenna but eventually we evolved to using the Pacific
> Wireless Rootennas where the access point is mounted inside of the
> antenna. http://www.pacwireless.com/products/client.shtml You can
> punch the aluminum backpanel for an "N" connector for a second antenna
> if desired.
>
> Good luck on your endeavors.
>
> Doug Kilgore KD5OUG
> kd5oug@...
> Richardson TX
>
>
>
> Wes johnston wrote:
>
> >Anyone got any suggestions for a NMO 2.4gig antenna? I'd like to mount a
> >NMO on the roof of our comms trailer so that one of the wrt54g antennas is
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> outside.
> >The trailer is aluminum.
> >
> >Antenna under consideration is
> >http://www.hyperlinktech.com/web/hg2405unmo.php a nmo wire with two coils
> >in
> >the center. It's so cheap, and can surely handle the occasional bout
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> >a
> >tree limb. Is it even worth trying?
> >
> >Also http://www.hyperlinktech.com/web/hg2409u.php but it is an N type
> >mount.
> >Anyone with experience with this one? Should I just get a NMO to N
> adapter
> >cap? It's 20" tall and I'm not so sure it will do so well with low tree
> >limbs.
> >
> >Any other suggestions?
> >

> >I just looked at the 2005 wild ride PPT, and geez it'd be slick to
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> >Wes
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> SPONSORED LINKS
> North texas real estate
> <http://groups.yahoo.com/gads?t=ms&k=North+texas+real+estate&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas+football&w4=Wireless+communication+and+networking&w5=Wireless+digital+communication&c=5&s=162&.sig=Y8Y7gU69y_fXh1yTu-MlWw>
> North texas university
> <http://groups.yahoo.com/gads?t=ms&k=North+texas+university&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas+football&w4=Wireless+communication+and+networking&w5=Wireless+digital+communication&c=5&s=162&.sig=p5h-KdWZ6Vqj_GzRQKZzbw>
> North texas football
> <http://groups.yahoo.com/gads?t=ms&k=North+texas+football&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas+football&w4=Wireless+communication+and+networking&w5

=Wireless+digital+communication&c=5&s=162&.sig=H-z2NGDaGE5IpuW4DTYwzg>
>
> Wireless communication and networking
> <http://groups.yahoo.com/gads?t=ms&k=Wireless+communication+and+networking&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas+football&w4=Wireless+communication+and+networking&w5=Wireless+digital+communication&c=5&s=162&.sig=SfersSpjxQQvdLDsTadqpA>
> Wireless digital communication
> <http://groups.yahoo.com/gads?t=ms&k=Wireless+digital+communication&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas+football&w4=Wireless+communication+and+networking&w5=Wireless+digital+communication&c=5&s=162&.sig=gNlWVQyvBHc4FE3aDGYknQ>
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> YAHOO! GROUPS LINKS
>
> * Visit your group "ntms-hsmm
> <http://groups.yahoo.com/group/ntms-hsmm>" on the web.
>
> * To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com
> <mailto:ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
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910. 06 Wild Ride

Yahoo group: DAWG-HSMM
Date: 2006-05-04 22:43:48 UTC
From: J. Beadles
Topic: 910 Message: 910

All,

It's time to get cooking for the 2006 Wild Ride. This is a bike Rally held in Richardson, TX on May 20. The ride is supported by the Richardson Wireless Klub and other local area clubs. For the past 2 years, we've run HSMM links to the start/stop and rest stops so that we could test out hardware, experiment with practical digital operating practice and demonstrate the technology to interested users.

This year we are going to try it again again, as a demonstration traffic passing exercise for any of you who are interested in participating. We will be using 802.11 and D-Star equipment, so you'll get to see both in action. If all the kinks can be worked out in time, we expect to pass traffic using Winlink (using Paclink over Telnet), digital video and digital photos.

In addition to the event on May 20, we'll run software installation and training sessions before the event, and operators will be welcome to participate in path testing.

There will be stations at Start/Stop and at four rest stops as volunteers permit. We will only staff stations where there are enough operators, and each station needs at least two operators. If you are interested in volunteering please let me know as soon as possible so I don't waste time testing out unneeded stations.

Anyone is welcome to participate regardless of your current level of expertise or available equipment. If you do wish to volunteer, please let me know if you have any of the following equipment to use:

1. A laptop with or without Wifi connectivity
2. A digital camera and the ability to download to a computer in the field
3. Any kind of web cam that can transmit over the internet
4. A wireless data card & commercial service
5. A WRT54G that you want to configure for HSMM use

911. RE: [ntms-hsmm] Comet HSMM antennas

Yahoo group: DAWG-HSMM
Date: 2006-05-04 22:30:11 UTC
From: Dave Anderson
Topic: 906 Message: 911

Mic at Comet simply categorized the 2.4 antennas already made for ISM as
HSMM.

Seeya,
Dave

>-----Original Message-----
>From: ntms-hsmm@yahoogroups.com
>[mailto:ntms-hsmm@yahoogroups.com] On Behalf Of J. Beadles
>Sent: Thursday, May 04, 2006 5:54 PM
>To: ntms-hsmm@yahoogroups.com
>Subject: [ntms-hsmm] Comet HSMM antennas
>
>Well isn't that a hoot... Comet has an HSMM specific line
>of antennas now.
>
>http://www.cometantenna.com/products.php?CatID=1&famID=5&c
>hildID=12
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>---------- Yahoo! Groups Sponsor
>----------~--> Everything you need is one click
>away. Make Yahoo! your home page now.
>http://us.click.yahoo.com/AHchtC/4FxNAA/yQLSAA/5AhqlB/TM
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>Yahoo! Groups Links
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>This message has been scanned for viruses and dangerous
>content by MailScanner, and is believed to be clean.
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This message has been scanned for viruses and
dangerous content by MailScanner, and is
believed to be clean.

912. 2006 Wild Ride - Digital video

Yahoo group: DAWG-HSMM
Date: 2006-05-04 23:13:23 UTC
From: J. Beadles
Topic: 912 Message: 912

For the 2006 Wild Ride HSMM event, we want to play with digital photography again. We did this last year with mixed results. I'm asking for ideas for practical ways to carry this off.

Two events I was party to are driving this. First, at this years' Collin County Skywarn School, the NWS instructor mentioned that he'd love to have live video from spotters in the field. Second, our local club has participated in local public security events, from christmas mall crime patrols to standing watch in an apartment complex watching for a serial rapist. In both cases, live video over HSMM worth developing.

There are many ways to send digital video over the internet. However, it occurs to me that it'd be useful to define a standard. If you were to provide digital video for the NWS during spotter events, what method would they need to receive it? In addition, it occurs to me that it would be useful to have the ability to embed some data in the video stream that could be picked out, such as call sign, gps coordinates, camera azimuth, and maybe telemetry. Is anybody aware of a good way to do this, that would be cheap or maybe free?

Another aspect is what hardware to use. Last year we used a number of desktop webcams with generally poor results. Consumer webcams are useable in some circumstances, but generally not outdoors where scenes require wide depth of focus or wide changes of brightness. Personally I've invested in a high resolution JVC security camera and a variable telephoto, auto-iris lens, and will be using a USB video digtizer.

Another solution is to use a digital camcorder with a Firewire (IEEE 1394) connection and WebcamDV software. This $20 software allows a digital camcorder to be treated as a standard windows video device, useable with cheap webcam software. I tried this and it provided the best, crystal clear photos I've seen yet. Unfortunately my Sony camcorder powers down automatically if left alone, even when plugged in. Also, the Firewire .A spec limits cable length to 4.5 meters.

There is some good, cheap webcam software floating around. I used ConquerCam last year, which worked perfectly for $10 (and a free $30 trial). We had extensive difficulties with a package, I think it was Active Webcam. It was very flexible, but extremely difficult to configure correctly. In any case, I'd really like a program that would allow me to embed live GPS data in the frames. Anybody have any ideas? There are some commercial packages, but cost in the hundreds of dollars.

913. 2006 Wild Ride - Digital Photography

Yahoo group: DAWG-HSMM
Date: 2006-05-04 23:23:12 UTC
From: J. Beadles
Topic: 913 Message: 913

Along with digital video, we would like to be able to move digital photos, preferably tagged with GPS information. Here are a couple of interesting links that tie in to this.

Microsoft's World Wide Media Exchange (WWMX) project would be neat to use with this. http://www.wwmx.org/

http://www.makezine.com/blog/archive/2005/07/how_to_gps_tag.html

Here's a commercial GPS tagged camera, but expensive:
http://www.geospatialexperts.com/purchase%20standard.html

Here's a freeware program, but doesn't quite do what I want.
http://www.yourmap.com/

914. Re: Comet HSMM antennas

Yahoo group: DAWG-HSMM
Date: 2006-05-04 23:24:17 UTC
From: J. Beadles
Topic: 906 Message: 914

Yeah, I know - it was just interesting to see them categorized as
HSMM in their catalog.

--- In ntms-hsmm@yahoogroups.com, "Dave Anderson" <dandersn@...>
wrote:
>
>
> Mic at Comet simply categorized the 2.4 antennas already made for
ISM as
> HSMM.
>
> Seeya,
> Dave
>
>
> >-----Original Message-----
> >From: ntms-hsmm@yahoogroups.com
> >[mailto:ntms-hsmm@yahoogroups.com] On Behalf Of J. Beadles
> >Sent: Thursday, May 04, 2006 5:54 PM
> >To: ntms-hsmm@yahoogroups.com
> >Subject: [ntms-hsmm] Comet HSMM antennas
> >
> >Well isn't that a hoot... Comet has an HSMM specific line
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> >hildID=12
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> >------------------------- Yahoo! Groups Sponsor
> >----------------------~--> Everything you need is one click
> >away. Make Yahoo! your home page now.
> >http://us.click.yahoo.com/AHchtC/4FxNAA/yQLSAA/5AhqlB/TM
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> >Yahoo! Groups Links
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> --
> This message has been scanned for viruses and
> dangerous content by MailScanner, and is
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>

915. RE: [ntms-hsmm] Re: Comet HSMM antennas

Yahoo group: DAWG-HSMM
Date: 2006-05-04 23:26:32 UTC
From: Dave Anderson
Topic: 906 Message: 915

>Yeah, I know - it was just interesting to see them
>categorized as HSMM in their catalog.

Was based on my suggestion :)

Seeya,
Dave
KG4YZY
www.fab-corp.com

--
This message has been scanned for viruses and
dangerous content by MailScanner, and is
believed to be clean.

916. Re: [ntms-hsmm] 06 Wild Ride

Yahoo group: DAWG-HSMM
Date: 2006-05-05 13:33:47 UTC
From: Paul Pescitelli
Topic: 910 Message: 916

what software distro are you planning for the wrt54g ?

On 5/4/06, J. Beadles <jbeadles@...> wrote:
>
> All,
>
> It's time to get cooking for the 2006 Wild Ride. This is a bike
> Rally held in Richardson, TX on May 20. The ride is supported by the
> Richardson Wireless Klub and other local area clubs. For the past 2
> years, we've run HSMM links to the start/stop and rest stops so that
> we could test out hardware, experiment with practical digital
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> traffic passing exercise for any of you who are interested in
> participating. We will be using 802.11 and D-Star equipment, so
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> in time, we expect to pass traffic using Winlink (using Paclink over
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> and training sessions before the event, and operators will be welcome
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> expertise or available equipment. If you do wish to volunteer,
> please let me know if you have any of the following equipment to use:
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> 1. A laptop with or without Wifi connectivity
> 2. A digital camera and the ability to download to a computer in the
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> 4. A wireless data card & commercial service
> 5. A WRT54G that you want to configure for HSMM use
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> SPONSORED LINKS
> North texas real estate<http://groups.yahoo.com/gads?t=ms&k=North+texas+real+estate&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas+football&w4=Wireless+communication+and+networking&w5=Wireless+digital+communication&c=5&s=162&.sig=Y8Y7gU69y_fXh1yTu-MlWw> North
> texas university<http://groups.yahoo.com/gads?t=ms&k=North+texas+university&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas+football&w4=Wireless+communication+and+networking&w5=Wireless+digital+communication&c=5&s=162&.sig=p5h-KdWZ6Vqj_GzRQKZzbw> North
> texas football<http://groups.yahoo.com/gads?t=ms&k=North+texas+football&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas+football&w4=Wireless+communication+and+networking&w5=Wireless+digital+communication&c=5&s=162&.sig=H-z2NGDaGE5IpuW4DTYwzg> Wireless
> communication and networking<http://groups.yahoo.com/gads?t=ms&k=Wireless+communication+and+networking&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas+football&w4=Wireless+communication+and+networking&w5=Wireless+digital+communication&c=5&s=162&.sig=SfersSpjxQQvdLDsTadqpA> Wireless
> digital communication<http://groups.yahoo.com/gads?t=ms&k=Wireless+digital+communication&w1=North+texas+real+estate&w2=North+texas+university&w3=North+texas+football&w4=Wireless+communication+and+networking&w5=Wireless+digital+communication&c=5&s=162&.sig=gNlWVQyvBHc4FE3aDGYknQ>
> ---
> YAHOO! GROUPS LINKS
>
>
> - Visit your group "ntms-hsmm<http://groups.yahoo.com/group/ntms-hsmm>"
> on the web.
>
> - To unsubscribe from this group, send an email to:
> ntms-hsmm-unsubscribe@yahoogroups.com<ntms-hsmm-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> - Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
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>
> ---
>

--
73 - Paul K4UJ / FS, KP2, KP4, PJ6, PJ7,VP2E, ZF2UJ
==========
http://www.dx-is.com
http://www.openhsmm.org
==========

[Non-text portions of this message have been removed]

917. Re: 06 Wild Ride

Yahoo group: DAWG-HSMM
Date: 2006-05-05 16:19:08 UTC
From: J. Beadles
Topic: 910 Message: 917

Paul,

Last year we did WDS bridges using Sveasoft Alchemy. It worked successfully. The only comment I have is that the bridged link needed about 20dB over threshold and 20dB SNR to function. A 2 mile hop worked with no issues, but a .5 mile with other APs in the main beam did not. I was unable to crank the power or increase antenna size sufficiently to overcome this interference. In point of fact, the link did work, but was unreliable enough that DHCP did not work over it.

--- In ntms-hsmm@yahoogroups.com, "Paul Pescitelli" <dx.k4uj@...> wrote:
>
> what software distro are you planning for the wrt54g ?
>
> On 5/4/06, J. Beadles <jbeadles@...> wrote:
> >
> > All,
> >
> > It's time to get cooking for the 2006 Wild Ride. This is a bike
> > Rally held in Richardson, TX on May 20. The ride is supported by the
> > Richardson Wireless Klub and other local area clubs. For the past 2
> > years, we've run HSMM links to the start/stop and rest stops so that
> > we could test out hardware, experiment with practical digital
> > operating practice and demonstrate the technology to interested users.
> >
> > This year we are going to try it again again, as a demonstration
> > traffic passing exercise for any of you who are interested in
> > participating. We will be using 802.11 and D-Star equipment, so
> > you'll get to see both in action. If all the kinks can be worked out
> > in time, we expect to pass traffic using Winlink (using Paclink over
> > Telnet), digital video and digital photos.
> >
> > In addition to the event on May 20, we'll run software installation
> > and training sessions before the event, and operators will be welcome
> > to participate in path testing.

> >
> > There will be stations at Start/Stop and at four rest stops as
> > volunteers permit. We will only staff stations where there are
> > enough operators, and each station needs at least two operators.
If
> > you are interested in volunteering please let me know as soon as
> > possible so I don't waste time testing out unneeded stations.
> >
> > Anyone is welcome to participate regardless of your current level
of
> > expertise or available equipment. If you do wish to volunteer,
> > please let me know if you have any of the following equipment to
use:
> >
> > 1. A laptop with or without Wifi connectivity
> > 2. A digital camera and the ability to download to a computer in
the
> > field
> > 3. Any kind of web cam that can transmit over the internet
> > 4. A wireless data card & commercial service
> > 5. A WRT54G that you want to configure for HSMM use
> >
> >
> >
> >
> >
> > SPONSORED LINKS
> > North texas real estate<http://groups.yahoo.com/gads?
t=ms&k=North+texas+real+estate&w1=North+texas+real+estate&w2=North+tex
as+university&w3=North+texas+football&w4=Wireless+communication+and+ne
tworking&w5=Wireless+digital+communication&c=5&s=162&.sig=Y8Y7gU69y_fX
h1yTu-MlWw> North
> > texas university<http://groups.yahoo.com/gads?
t=ms&k=North+texas+university&w1=North+texas+real+estate&w2=North+texa
s+university&w3=North+texas+football&w4=Wireless+communication+and+net
working&w5=Wireless+digital+communication&c=5&s=162&.sig=p5h-
KdWZ6Vqj_GzRQKZzbw> North
> > texas football<http://groups.yahoo.com/gads?
t=ms&k=North+texas+football&w1=North+texas+real+estate&w2=North+texas+
university&w3=North+texas+football&w4=Wireless+communication+and+netwo
rking&w5=Wireless+digital+communication&c=5&s=162&.sig=H-
z2NGDaGE5IpuW4DTYwzg> Wireless
> > communication and networking<http://groups.yahoo.com/gads?
t=ms&k=Wireless+communication+and+networking&w1=North+texas+real+estat
e&w2=North+texas+university&w3=North+texas+football&w4=Wireless+commun
ication+and+networking&w5=Wireless+digital+communication&c=5&s=162&.si
g=SfersSpjxQQvdLDsTadqpA> Wireless
> > digital communication<http://groups.yahoo.com/gads?
t=ms&k=Wireless+digital+communication&w1=North+texas+real+estate&w2=No
rth+texas+university&w3=North+texas+football&w4=Wireless+communication

+and+networking&w5=Wireless+digital+communication&c=5&s=162&.sig=gNlWV
QyvBHc4FE3aDGYknQ>
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unsubscribe@yahoogroups.com?subject=Unsubscribe>
> >
> > - Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service <http://docs.yahoo.com/info/terms/>.
> >
> >
> > ----------
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> --
> 73 - Paul K4UJ / FS, KP2, KP4, PJ6, PJ7,VP2E, ZF2UJ
> ==========
> http://www.dx-is.com
> http://www.openhsmm.org
> ==========
>
>
> [Non-text portions of this message have been removed]
>

918. D-star testing tomorrow

Yahoo group: DAWG-HSMM
Date: 2006-05-06 00:10:47 UTC
From: J. Beadles
Topic: 918 Message: 918

All,

I'm going to do some D-star testing in the N Dallas area tomorrow. Probably after about 4pm. Anybody interested in tagging along, yell at me at 972-898-0843. Will be listening to the Plano rptr, 147.18+ 107.2 (?)

919. Re: D-star testing tomorrow

Yahoo group: DAWG-HSMM
Date: 2006-05-07 00:17:33 UTC
From: J. Beadles
Topic: 918 Message: 919

Well, nobody is interested in tagging along to test this stuff. Today's
testing didn't go very well. I have 2 ID-1s, neither worked. However,
We were able to verify the path with WD5ERD's ID-1. Either my tri-band
mobile antenna is broke, or something is misconfigured on the radios.
Heading over to N5AC's house tomorrow to put it on his bench.

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@...> wrote:
>
> All,
>
> I'm going to do some D-star testing in the N Dallas area tomorrow.
> Probably after about 4pm. Anybody interested in tagging along, yell
at
> me at 972-898-0843. Will be listening to the Plano rptr, 147.18+
107.2
> (?)
>

920. Re: [ntms-hsmm] Re: D-star testing tomorrow

Yahoo group: DAWG-HSMM
Date: 2006-05-07 02:35:37 UTC
From: Ron Cole
Topic: 918 Message: 920

Thats interesting.
The radios have to be configured correctley to get
into the repeater, I had that problem with my ID-1.
To get throught the Gateway to a remote repeater you
have to be registered in the Gateway which is not an
automatic process.

Good Luck and 73

Ron
N5HYH

--- "J. Beadles" <jbeadles@...> wrote:

> Well, nobody is interested in tagging along to test
> this stuff. Today's
> testing didn't go very well. I have 2 ID-1s,
> neither worked. However,
> We were able to verify the path with WD5ERD's ID-1.
> Either my tri-band
> mobile antenna is broke, or something is
> misconfigured on the radios.
> Heading over to N5AC's house tomorrow to put it on
> his bench.
>
> --- In ntms-hsmm@yahoogroups.com, "J. Beadles"
> <jbeadles@...> wrote:
> >
> > All,
> >
> > I'm going to do some D-star testing in the N
> Dallas area tomorrow.
> > Probably after about 4pm. Anybody interested in
> tagging along, yell
> at
> > me at 972-898-0843. Will be listening to the
> Plano rptr, 147.18+
> 107.2
> > (?)
> >
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Ron

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921. Re: [ntms-hsmm] Re: D-star testing tomorrow

Yahoo group: DAWG-HSMM
Date: 2006-05-07 02:45:57 UTC
From: Dave NØRQ
Topic: 918 Message: 921

Interested, yes, but the timing is bad (for me).

I find the ID-1 (and D-Star) to be a fascinating peek at the future.
And if they have another signficant price drop, I'm sure more of us
will be in the market... :-)

- Dave N0RQ

----- Original Message -----
From: "J. Beadles" <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Saturday, May 06, 2006 19:17
Subject: [ntms-hsmm] Re: D-star testing tomorrow

Well, nobody is interested in tagging along to test this stuff. Today's
testing didn't go very well. I have 2 ID-1s, neither worked. However,
We were able to verify the path with WD5ERD's ID-1. Either my tri-band
mobile antenna is broke, or something is misconfigured on the radios.
Heading over to N5AC's house tomorrow to put it on his bench.

922. Re: D-star testing tomorrow

Yahoo group: DAWG-HSMM
Date: 2006-05-07 13:15:30 UTC
From: J. Beadles
Topic: 918 Message: 922

Yeah. I'm not even doing that, though, I'm just trying to ping the gateway. The config was set up for me by the repeater owner, who is out of town this weekend. I worked with WD5ERD, who was able to see me transmit, and saw the repeater respond, but I got no RX. I'm using a Comet tri-band antenna on an N magmount. Maybe it isn't working.

--- In ntms-hsmm@yahoogroups.com, Ron Cole <rdcole@...> wrote:
>
> Thats interesting.
> The radios have to be configured correctley to get
> into the repeater, I had that problem with my ID-1.
> To get throught the Gateway to a remote repeater you
> have to be registered in the Gateway which is not an
> automatic process.
>
> Good Luck and 73
>
> Ron
> N5HYH
>
>
> --- "J. Beadles" <jbeadles@...> wrote:
>
> > Well, nobody is interested in tagging along to test
> > this stuff. Today's
> > testing didn't go very well. I have 2 ID-1s,
> > neither worked. However,
> > We were able to verify the path with WD5ERD's ID-1.
> > Either my tri-band
> > mobile antenna is broke, or something is
> > misconfigured on the radios.
> > Heading over to N5AC's house tomorrow to put it on
> > his bench.
> >
> > --- In ntms-hsmm@yahoogroups.com, "J. Beadles"
> > <jbeadles@> wrote:
> > >
> > > All,
> > >
> > > I'm going to do some D-star testing in the N
> > Dallas area tomorrow.
> > > Probably after about 4pm. Anybody interested in
> > tagging along, yell
> > at

> > > me at 972-898-0843. Will be listening to the
> > Plano rptr, 147.18+
> > 107.2
> > > (?)
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> > Yahoo! Groups Links
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> > ntms-hsmm-unsubscribe@yahoogroups.com
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>
> Ron
>
> ___
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

923. Re: D-star testing tomorrow

Yahoo group: DAWG-HSMM
Date: 2006-05-07 13:17:56 UTC
From: J. Beadles
Topic: 918 Message: 923

Sorry Dave, I shouldn't have said nobody was interested. I know that
a lot of folks are out working the MS150 this weekend. If I didn't
have to be doing this, I'd be with you.

I'm in the same boat with you. Interestingly, the price did drop
from $1300 to $999. So there is hope for another price drop later.

--- In ntms-hsmm@yahoogroups.com, Dave NØRQ <n0rq-lists@...> wrote:
>
> Interested, yes, but the timing is bad (for me).
>
> I find the ID-1 (and D-Star) to be a fascinating peek at the future.
> And if they have another signficant price drop, I'm sure more of us
> will be in the market... :-)
>
> - Dave N0RQ
>
>
> ----- Original Message -----
> From: "J. Beadles" <jbeadles@...>
> To: <ntms-hsmm@yahoogroups.com>
> Sent: Saturday, May 06, 2006 19:17
> Subject: [ntms-hsmm] Re: D-star testing tomorrow
>
>
> Well, nobody is interested in tagging along to test this stuff.
Today's
> testing didn't go very well. I have 2 ID-1s, neither worked.
However,
> We were able to verify the path with WD5ERD's ID-1. Either my tri-
band
> mobile antenna is broke, or something is misconfigured on the
radios.
> Heading over to N5AC's house tomorrow to put it on his bench.
>

924. RE: [ntms-hsmm] Re: D-star testing tomorrow

Yahoo group: DAWG-HSMM
Date: 2006-05-07 13:19:08 UTC
From: AE5PL Lists
Topic: 918 Message: 924

Wish I could have been there but was tied up all day (I will be tied up again today with the club's Tech class this afternoon at the Heard Museum). Are you saying your difficulty was accessing the voice or data repeater?

Were you trying to access the Internet? Be sure that your entire 8 character "call" has been entered on the gateway (Jim, Bill, or Gerry do this I believe) to get Internet access and (for high speed data) that you are using the IP address they assigned (not as important but it helps). For HS data:

Be sure to turn off all of the Microsoft stuff on Ethernet connection (Client for Microsoft Networks and File Sharing should be unchecked on the adapter definition, only have IP checked).

Address: 10.x.x.x (assigned when you get registered with the gateway as explained above).
Mask: 255.0.0.0
Gateway: 10.0.0.1
DNS: 10.0.0.1
Repeater 1: K5TIT A
Repeater 2: K5TIT G
MyCall 1: your _gateway registered_ callsign and extension.

Hope this helps.

73,

Pete Loveall AE5PL
mailto:pete@...

> -----Original Message-----
> From: J. Beadles
> Posted At: Saturday, May 06, 2006 7:18 PM
> Subject: [ntms-hsmm] Re: D-star testing tomorrow
>
> Well, nobody is interested in tagging along to test this
> stuff. Today's testing didn't go very well. I have 2 ID-1s,
> neither worked. However, We were able to verify the path
> with WD5ERD's ID-1. Either my tri-band mobile antenna is
> broke, or something is misconfigured on the radios.
> Heading over to N5AC's house tomorrow to put it on his bench.

925. RE: [ntms-hsmm] Re: D-star testing tomorrow

Yahoo group: DAWG-HSMM
Date: 2006-05-07 13:23:32 UTC
From: AE5PL Lists
Topic: 918 Message: 925

Remember that your squelch goes into attenuate mode when set to half (just like most other Icoms). If the repeater and gateway was seeing you, your antenna is working. Look towards the squelch setting and also make sure that TX Inhibit isn't on (it defaults to on when in HS data mode). I doubt it was this last part if WD5ERD was able to see you.

73,

Pete Loveall AE5PL
mailto:pete@...

> -----Original Message-----
> From: J. Beadles
> Posted At: Sunday, May 07, 2006 8:16 AM
> Subject: [ntms-hsmm] Re: D-star testing tomorrow
>
> Yeah. I'm not even doing that, though, I'm just trying to
> ping the gateway. The config was set up for me by the
> repeater owner, who is out of town this weekend. I worked
> with WD5ERD, who was able to see me transmit, and saw the
> repeater respond, but I got no RX. I'm using a Comet
> tri-band antenna on an N magmount. Maybe it isn't working.

926. RE: [ntms-hsmm] Re: D-star testing tomorrow

Yahoo group: DAWG-HSMM
Date: 2006-05-07 14:53:53 UTC
From: jbeadles@pobox.com
Topic: 918 Message: 926

Pete,

Jim set up everything, and the IPs I have can ping the gateway from Fred's ID-1, but not the other one I have. At this time, I'm only trying to ping the gateway, not pass through it. I could do this from Fred's radio once it was configured, but not from mine.

On 7 May 2006 at 8:19, AE5PL Lists wrote:

> Wish I could have been there but was tied up all day (I will be tied up
> again today with the club's Tech class this afternoon at the Heard
> Museum). Are you saying your difficulty was accessing the voice or data
> repeater?
>
> Were you trying to access the Internet? Be sure that your entire 8
> character "call" has been entered on the gateway (Jim, Bill, or Gerry do
> this I believe) to get Internet access and (for high speed data) that
> you are using the IP address they assigned (not as important but it
> helps). For HS data:
>
> Be sure to turn off all of the Microsoft stuff on Ethernet connection
> (Client for Microsoft Networks and File Sharing should be unchecked on
> the adapter definition, only have IP checked).
>
> Address: 10.x.x.x (assigned when you get registered with the gateway as
> explained above).
> Mask: 255.0.0.0
> Gateway: 10.0.0.1
> DNS: 10.0.0.1
> Repeater 1: K5TIT A
> Repeater 2: K5TIT G
> MyCall 1: your _gateway registered_ callsign and extension.
>
> Hope this helps.
>
> 73,
>
> Pete Loveall AE5PL
> mailto:pete@...
>
> > -----Original Message-----
> > From: J. Beadles
> > Posted At: Saturday, May 06, 2006 7:18 PM
> > Subject: [ntms-hsmm] Re: D-star testing tomorrow
> >
> > Well, nobody is interested in tagging along to test this

> > stuff. Today's testing didn't go very well. I have 2 ID-1s,
> > neither worked. However, We were able to verify the path
> > with WD5ERD's ID-1. Either my tri-band mobile antenna is
> > broke, or something is misconfigured on the radios.
> > Heading over to N5AC's house tomorrow to put it on his bench.
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> Yahoo! Groups Links
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927. Re: [ntms-hsmm] Re: D-star testing tomorrow

Yahoo group: DAWG-HSMM
Date: 2006-05-07 17:11:34 UTC
From: Ron Cole
Topic: 918 Message: 927

Im supprised ERD could not get it running.
He was my First contact on DSTAR.

Ron

--- "J. Beadles" <jbeadles@...> wrote:

> Yeah. I'm not even doing that, though, I'm just
> trying to ping the
> gateway. The config was set up for me by the
> repeater owner, who is
> out of town this weekend. I worked with WD5ERD, who
> was able to see
> me transmit, and saw the repeater respond, but I got
> no RX. I'm
> using a Comet tri-band antenna on an N magmount.
> Maybe it isn't
> working.
>
> --- In ntms-hsmm@yahoogroups.com, Ron Cole
> <rdcole@...> wrote:
> >
> > Thats interesting.
> > The radios have to be configured correctley to get
> > into the repeater, I had that problem with my
> ID-1.
> > To get throught the Gateway to a remote repeater
> you
> > have to be registered in the Gateway which is not
> an
> > automatic process.
> >
> > Good Luck and 73
> >
> > Ron
> > N5HYH
> >
> >
> > --- "J. Beadles" <jbeadles@...> wrote:
> >
> > > Well, nobody is interested in tagging along to
> test
> > > this stuff. Today's
> > > testing didn't go very well. I have 2 ID-1s,
> > > neither worked. However,
> > > We were able to verify the path with WD5ERD's

> ID-1.
> > > Either my tri-band
> > > mobile antenna is broke, or something is
> > > misconfigured on the radios.
> > > Heading over to N5AC's house tomorrow to put it
> on
> > > his bench.
> > >
> > > --- In ntms-hsmm@yahoogroups.com, "J. Beadles"
> > > <jbeadles@> wrote:
> > > >
> > > > All,
> > > >
> > > > I'm going to do some D-star testing in the N
> > > Dallas area tomorrow.
> > > > Probably after about 4pm. Anybody interested
> in
> > > tagging along, yell
> > > at
> > > > me at 972-898-0843. Will be listening to the
> > > Plano rptr, 147.18+
> > > 107.2
> > > > (?)
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Ron

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http://mail.yahoo.com

928. Good articles on 802.11 spectrum management

Yahoo group: DAWG-HSMM
Date: 2006-05-08 16:57:43 UTC
From: J. Beadles
Topic: 928 Message: 928

Spectrum management
http://techrepublic.com.com/5100-1035-6061866.html#

Wireless site survey technique
http://techrepublic.com.com/5100-1035_11-6067403.html

929. Re: D-star testing tomorrow

Yahoo group: DAWG-HSMM
Date: 2006-05-08 17:03:23 UTC
From: J. Beadles
Topic: 918 Message: 929

Fred works with Jim McClellan and Jim More. Jim configured these radios, so I'm in that chain of knowledge.

In any case, Jim was out of pocket this weekend, so I took the radio over to Steve N5AC's house. Steve is working to set up a Collin County D-Star repeater, and works with Jim, Bill & Fred.

Still, no joy. Steve shows that the radio will transmit on voice, but cannot be made to transmit data reliably. The network activity light flashes when it sees my packets, but will not transmit. We did see a couple of transmit light flashes, maybe .5% of all packets pushed to the radio. Steve flushed and reprogrammed that radio and another one new out of the box. The new radio behaves correctly, but the radio I have does not.

Well, guess I'll work on the other radio I have and wait for Jim to come back to look at this oddball. Also, Steve gave me some 1.2GHz Yagi plans, so I'm going to start working on that.

--- In ntms-hsmm@yahoogroups.com, Ron Cole <rdcole@...> wrote:
>
> Im supprised ERD could not get it running.
> He was my First contact on DSTAR.
>
> Ron
>
> --- "J. Beadles" <jbeadles@...> wrote:
>
> > Yeah. I'm not even doing that, though, I'm just
> > trying to ping the
> > gateway. The config was set up for me by the
> > repeater owner, who is
> > out of town this weekend. I worked with WD5ERD, who
> > was able to see
> > me transmit, and saw the repeater respond, but I got
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> > > The radios have to be configured correctley to get
> > > into the repeater, I had that problem with my

> > ID-1.
> > > To get throught the Gateway to a remote repeater
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> > > have to be registered in the Gateway which is not
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> > > automatic process.
> > >
> > > Good Luck and 73
> > >
> > > Ron
> > > N5HYH
> > >
> > >
> > > --- "J. Beadles" <jbeadles@> wrote:
> > >
> > > > Well, nobody is interested in tagging along to
> > test
> > > > this stuff. Today's
> > > > testing didn't go very well. I have 2 ID-1s,
> > > > neither worked. However,
> > > > We were able to verify the path with WD5ERD's
> > ID-1.
> > > > Either my tri-band
> > > > mobile antenna is broke, or something is
> > > > misconfigured on the radios.
> > > > Heading over to N5AC's house tomorrow to put it
> > on
> > > > his bench.
> > > >
> > > > --- In ntms-hsmm@yahoogroups.com, "J. Beadles"
> > > > <jbeadles@> wrote:
> > > > >
> > > > > All,
> > > > >
> > > > > I'm going to do some D-star testing in the N
> > > > Dallas area tomorrow.
> > > > > Probably after about 4pm. Anybody interested
> > in
> > > > tagging along, yell
> > > > at
> > > > > me at 972-898-0843. Will be listening to the
> > > > Plano rptr, 147.18+
> > > > 107.2
> > > > > (?)
> > > > >
> > > >
> > > >
> > > >
> > > >
> > > >

> > > >
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> > >
> > > Ron
> > >
> > > _____
> > > Do You Yahoo!?
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> > protection around
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> > ntms-hsmm-unsubscribe@yahoogroups.com
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> Ron
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> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>

930. Re: [ntms-hsmm] Re: D-star testing tomorrow

Yahoo group: DAWG-HSMM
Date: 2006-05-09 11:10:48 UTC
From: TOM BLACKWELL
Topic: 918 Message: 930

Note the ad for the new IC-91AD inside the front cover of the June QST

also:

http://members.cox.net/d-star/images/ic-91ad_front.jpg

"J. Beadles" wrote:

> In any case, Jim was out of pocket this weekend, so I took the radio
> over to Steve N5AC's house. Steve is working to set up a Collin
> County D-Star repeater, and works with Jim, Bill & Fred.
>
> Still, no joy. Steve shows that the radio will transmit on voice,
> but cannot be made to transmit data reliably. The network activity
> light flashes when it sees my packets, but will not transmit. We did
> see a couple of transmit light flashes, maybe .5% of all packets
> pushed to the radio. Steve flushed and reprogrammed that radio and
> another one new out of the box. The new radio behaves correctly, but
> the radio I have does not.
>
> Well, guess I'll work on the other radio I have and wait for Jim to
> come back to look at this oddball. Also, Steve gave me some 1.2GHz
> Yagi plans, so I'm going to start working on that.

--
Regards, TOM BLACKWELL, N5GAR, PO Box 25403, Dallas, Texas 75225

931. Re: 06 Wild Ride

Yahoo group: DAWG-HSMM
Date: 2006-05-10 15:00:49 UTC
From: J. Beadles
Topic: 910 Message: 931

All,

So far I only have one person interested in doing HSMM at the Wild Ride. If you are interested in doing HSMM in the field, we're providing the opportunity for your benefit. However, I'm not going to attempt to staff digital stations where there are not enough persons to man them. If you are interested this topic, participate!

There is a week and a half to go to the Wild Ride. If you are interested in doing this, please let me know in the next couple of days, or I'll start to shut down unneeded activities.

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@...> wrote:
>
> All,
>
> It's time to get cooking for the 2006 Wild Ride. This is a bike
> Rally held in Richardson, TX on May 20. The ride is supported by
the
> Richardson Wireless Klub and other local area clubs. For the past
2
> years, we've run HSMM links to the start/stop and rest stops so
that
> we could test out hardware, experiment with practical digital
> operating practice and demonstrate the technology to interested
users.
>
> This year we are going to try it again again, as a demonstration
> traffic passing exercise for any of you who are interested in
> participating. We will be using 802.11 and D-Star equipment, so
> you'll get to see both in action. If all the kinks can be worked
out
> in time, we expect to pass traffic using Winlink (using Paclink
over
> Telnet), digital video and digital photos.
>
> In addition to the event on May 20, we'll run software installation
> and training sessions before the event, and operators will be
welcome
> to participate in path testing.
>
> There will be stations at Start/Stop and at four rest stops as
> volunteers permit. We will only staff stations where there are
> enough operators, and each station needs at least two operators.
If
> you are interested in volunteering please let me know as soon as

> possible so I don't waste time testing out unneeded stations.
>
> Anyone is welcome to participate regardless of your current level
of
> expertise or available equipment. If you do wish to volunteer,
> please let me know if you have any of the following equipment to
use:
>
> 1. A laptop with or without Wifi connectivity
> 2. A digital camera and the ability to download to a computer in
the
> field
> 3. Any kind of web cam that can transmit over the internet
> 4. A wireless data card & commercial service
> 5. A WRT54G that you want to configure for HSMM use
>

932. Wild Ride Internet Connections Rest Stop #1 and #4

Yahoo group: DAWG-HSMM
Date: 2006-05-11 02:38:26 UTC
From: Douglas Kilgore
Topic: 932 Message: 932

Here's info on internet connections for Rest Stop #1 and #4 for the Wild Ride Bike Rally on May 20. Both are in a residential area so connections are relatively simple.

Rest Stop #1
It's located in the same cul-de-sac as last year. The townhome management office is located about 150 feet away over a fence. We have permission to connect to their open wireless connection in their front office which is unfortunately on the side of the building away from us. Their building is evidently well shielded so we will need to place a wireless client outside their window and run about 300 feet of CAT-5 wire to the rest stop location.

Rest Stop #4
This is a new location for this rest stop. It's in the parking lot of an elementary school. A homeowner directly accross the street has agreed to let us use his cable internet connection. He has only a single connection so we will unplug his computer from the cable modem and plug in our wireless access point. There's even a high up ledge in his front window which will support placement of the access point with a 6 db flat panel antenna connected.

Doug Kilgore KD5OUG

933. Re: [ntms-hsmm] Wild Ride Internet Connections Rest Stop #1 and #4

Yahoo group: DAWG-HSMM
Date: 2006-05-11 13:02:23 UTC
From: Keith Berry
Topic: 932 Message: 933

Doug,

Still working on the ATT location. Received a call from the manager, but the building support folks are VERY picky about anything on the building. He is supposed to look at the roof and see what we might be able to do. The balcony will not be an option as there is not power out there.

As a side note, Countrywide is a sponsor for the Wildflower Festival. If you approach their building folks, they might be willing to let you use their roof.

I will advise ASAP on the other building.

Regards,
Keith

----- Original Message ----
From: Douglas Kilgore <douglas.kilgore@...>
To: ntms-hsmm@yahoogroups.com
Sent: Wednesday, May 10, 2006 9:38:26 PM
Subject: [ntms-hsmm] Wild Ride Internet Connections Rest Stop #1 and #4

Here's info on internet connections for Rest Stop #1 and #4 for the Wild Ride Bike Rally on May 20. Both are in a residential area so connections are relatively simple.

Rest Stop #1
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Doug Kilgore KD5OUG

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[Non-text portions of this message have been removed]

934. Re: [ntms-hsmm] Wild Ride Internet Connections Rest Stop #1 and #4

Yahoo group: DAWG-HSMM
Date: 2006-05-11 13:39:59 UTC
From: Douglas Kilgore
Topic: 932 Message: 934

Thanks for the update. I appreciate your help on this matter.

Doug

Keith Berry wrote:

>Doug,
>
>Still working on the ATT location. Received a call from the manager, but the building support folks are VERY picky about anything on the building. He is supposed to look at the roof and see what we might be able to do. The balcony will not be an option as there is not power out there.
>
>As a side note, Countrywide is a sponsor for the Wildflower Festival. If you approach their building folks, they might be willing to let you use their roof.
>
>I will advise ASAP on the other building.
>
>Regards,
>Keith
>
>----- Original Message ----
>From: Douglas Kilgore <douglas.kilgore@...>
>To: ntms-hsmm@yahoogroups.com
>Sent: Wednesday, May 10, 2006 9:38:26 PM
>Subject: [ntms-hsmm] Wild Ride Internet Connections Rest Stop #1 and #4
>
>Here's info on internet connections for Rest Stop #1 and #4 for the Wild
>Ride Bike Rally on May 20. Both are in a residential area so
>connections are relatively simple.
>
>Rest Stop #1
>It's located in the same cul-de-sac as last year. The townhome
>management office is located about 150 feet away over a fence. We have
>permission to connect to their open wireless connection in their front
>office which is unfortunately on the side of the building away from us.
>Their building is evidently well shielded so we will need to place a
>wireless client outside their window and run about 300 feet of CAT-5
>wire to the rest stop location.
>
>Rest Stop #4
>This is a new location for this rest stop. It's in the parking lot of
>an elementary school. A homeowner directly accross the street has
>agreed to let us use his cable internet connection. He has only a
>single connection so we will unplug his computer from the cable modem
>and plug in our wireless access point. There's even a high up ledge in

>his front window which will support placement of the access point with a
>6 db flat panel antenna connected.
>
>Doug Kilgore KD5OUG
>
>
>
>
>
>YAHOO! GROUPS LINKS
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>
> Visit your group "ntms-hsmm" on the web.
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935. D-Star implementation

Yahoo group: DAWG-HSMM
Date: 2006-05-12 13:52:31 UTC
From: John Barrett
Topic: 935 Message: 935

After seeing all the traffic about D-Star over the last few weeks, and looking over the pricing for D-Star gear -- I'm starting up a project to build a bare-bones 1.2 ghz 128kbps D-Star compatible data radio.

I was speaking to Fred, WD5ERD, and he mentioned a project that was stalled on their implementation. I was wondering if anyone had information about that or other D-Star clone projects, or information that might help me refine my designs.

I'm looking at a IF-less DSP based solution utilizing direct RF-to-baseband conversion quadarture modulators/demodulators with an AVR32 microcontroller to manage the ethernet, usb. and radio ports. An FPGA/CPLD solution may also be viable considering that the "modem" need only handle a 1mhz sample rate, and FPGAs are readily availabe that can handle 50x that rate.

My current major issue is getting my hands on Verilog/VHDL/DSP source code for quadrature GMSK mod/demod, and getting my hands on a DSP evaluation kit for creating a prototype implementation. Any help in these directions would be most appreciated !!

936. Re: D-Star implementation

Yahoo group: DAWG-HSMM
Date: 2006-05-12 21:20:35 UTC
From: J. Beadles
Topic: 935 Message: 936

John, I hope you can do it. D-Star is ok, just waaaay too expensive.

--- In ntms-hsmm@yahoogroups.com, "John Barrett" <ke5crp@...> wrote:
>
> After seeing all the traffic about D-Star over the last few weeks, and
> looking over the pricing for D-Star gear -- I'm starting up a project to
> build a bare-bones 1.2 ghz 128kbps D-Star compatible data radio.
>
> I was speaking to Fred, WD5ERD, and he mentioned a project that was stalled
> on their implementation. I was wondering if anyone had information about
> that or other D-Star clone projects, or information that might help me
> refine my designs.
>
> I'm looking at a IF-less DSP based solution utilizing direct RF-to-baseband
> conversion quadarture modulators/demodulators with an AVR32 microcontroller
> to manage the ethernet, usb. and radio ports. An FPGA/CPLD solution may also
> be viable considering that the "modem" need only handle a 1mhz sample rate,
> and FPGAs are readily availabe that can handle 50x that rate.
>
> My current major issue is getting my hands on Verilog/VHDL/DSP source code
> for quadrature GMSK mod/demod, and getting my hands on a DSP evaluation kit
> for creating a prototype implementation. Any help in these directions would
> be most appreciated !!
>

937. Video frame grabbers

Yahoo group: DAWG-HSMM
Date: 2006-05-13 20:37:45 UTC
From: J. Beadles
Topic: 937 Message: 937

Anybody know of a good USB2.0 video frame grabber that'll work on Win2k? These used to be on the market until the focus changed to video stream collection. Now nobody publishes the specs on the units anymore. I'm wasting a huge amount of time finding out which ones don't work.

The Hauppage USB Live and KWorld DVDMaker USB 2.0 both seem to capture video at a max frame size of 320x240, meaning that you have to scale up images, making them very poor. I looked at the Hauppage WinTV-USB2, but that's XP only. So far, I'm really disappointed at the offerings.

938. RE: [ntms-hsmm] Comet HSMM antennas

Yahoo group: DAWG-HSMM
Date: 2006-05-16 07:54:55 UTC
From: John Champa
Topic: 906 Message: 938

Still sounds like progress in my book! ;-)To: ntms-hsmm@yahoogroups.comFrom: dandersn@...: Thu, 4 May 2006 18:30:11 -0400Subject: RE: [ntms-hsmm] Comet HSMM antennas Mic at Comet simply categorized the 2.4 antennas already made for ISM as HSMM. Seeya, Dave >-----Original Message----- >From: ntms-hsmm@yahoogroups.com >[mailto:ntms-hsmm@yahoogroups.com] On Behalf Of J. Beadles >Sent: Thursday, May 04, 2006 5:54 PM >To: ntms-hsmm@yahoogroups.com >Subject: [ntms-hsmm] Comet HSMM antennas > >Well isn't that a hoot... Comet has an HSMM specific line >of antennas now. > >http://www.cometantenna.com/products.php?CatID=1&famID=5&c >hildID=12 > > > > > > >---------- Yahoo! Groups Sponsor >----------~--> Everything you need is one click >away. Make Yahoo! your home page now. >http://us.click.yahoo.com/AHchtC/4FxNAA/yQLSAA/5AhqlB/TM >---------- >----------~-> > > >Yahoo! Groups Links > > > > > > > > >-- >This message has been scanned for viruses and dangerous >content by MailScanner, and is believed to be clean. > > > -- This message has been scanned for viruses and dangerous content by MailScanner, and is believed to be clean. SPONSORED LINKS North texas real estate North texas university North texas football Wireless communication and networking Wireless digital communication YAHOO! GROUPS LINKS Visit your group "ntms-hsmm" on the web. To unsubscribe from this group, send an email to: ntms-hsmm-unsubscribe@yahoogroups.com Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

939. RE: [ntms-hsmm] Re: Comet HSMM antennas

Yahoo group: DAWG-HSMM
Date: 2006-05-16 07:56:05 UTC
From: John Champa
Topic: 906 Message: 939

Thanks for the suggestion Dave!To: ntms-hsmm@yahoogroups.comFrom: dandersn@...: Thu, 4 May 2006 19:26:32 -0400Subject: RE: [ntms-hsmm] Re: Comet HSMM antennas >Yeah, I know - it was just interesting to see them >categorized as HSMM in their catalog. Was based on my suggestion :) Seeya, Dave KG4YZY www.fab-corp.com -- This message has been scanned for viruses and dangerous content by MailScanner, and is believed to be clean. YAHOO! GROUPS LINKS Visit your group "ntms-hsmm" on the web. To unsubscribe from this group, send an email to: ntms-hsmm-unsubscribe@yahoogroups.com Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

[Non-text portions of this message have been removed]

940. Re: Video frame grabbers

Yahoo group: DAWG-HSMM
Date: 2006-05-16 19:47:58 UTC
From: J. Beadles
Topic: 937 Message: 940

Whilst playing with the D-star unit that worked this last Sat and Sun, I hooked up my nifty JVC CCTV camera to the KWorld digitizer and went driving. The software, ConquerCam, was set to send a frame every 30 secs, and would just time out if I was out of D-star coverage, which happened a lot.

If I could get a better USB digitizer, the camera works very well, even in low light. Unfortunately at 320x240 frame size, I couldn't see enough detail to focus the lens very well. Many twilight scenes leave the ground too dark as the bright sky causes the iris to close. Here are some frames:

Daytime (at rest stop 2)
http://www.k5rwk.org/wr/comm2/140506@...

In to the sun
http://www.k5rwk.org/wr/comm2/140506@...

Twilight
http://www.k5rwk.org/wr/comm2/140506@...
http://www.k5rwk.org/wr/comm2/140506@...

Night on the freeway, with the camera flipping back and forth between color and B&W mode (due to light level)
http://www.k5rwk.org/wr/comm2/140506@...
http://www.k5rwk.org/wr/comm2/140506@...g

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@...> wrote:
>
> Anybody know of a good USB2.0 video frame grabber that'll work on
> Win2k? These used to be on the market until the focus changed to video
> stream collection. Now nobody publishes the specs on the units
> anymore. I'm wasting a huge amount of time finding out which ones
> don't work.
>
> The Hauppage USB Live and KWorld DVDMaker USB 2.0 both seem to capture
> video at a max frame size of 320x240, meaning that you have to scale up
> images, making them very poor. I looked at the Hauppage WinTV-USB2,
> but that's XP only. So far, I'm really disappointed at the offerings.
>

941. 06 Wild Ride HSMM Initial Summary

Yahoo group: DAWG-HSMM
Date: 2006-05-21 19:48:46 UTC
From: J. Beadles
Topic: 941 Message: 941

The HSMM training opportunity at the 2006 Wild Ride bicycle ride in Richardson, TX was generally successful, with the usual complications. Photos will be forthcoming.

LOCATION CONFIGURATION

Start-Stop - This used 3 hops of 802.11, with Linksys WRT54G radios running Sveasoft Alchemy as firmware. Bridging was performed using WDS. Kevin KD5YVL reported that this was rock solid the entire time, and that all tasks were successfully completed.

Rest Stop 1 - This was intended to use an 802.11 client bridge to an open AP volunteered by a local realty office. We were unable to make the client bridge work, and a Sprint EVDO card was substituted as the internet source. This was reported to work, but no other status information has been made available at this time.

Rest Stop 2 - This was a D-Star hop connecting to the Dallas K5TIT repeater. This was connected to the WAN port of a WRT54G. The D-Star ID-1 used a home-built 9 element Yagi built using plans provided by Steve N5AC. The system was known to work when I set it up. However, it was reported to have failed later in the event, possibly as a result of sending megapixel photo images in violation of the pre-event instructions. No additional information is currently available.

Rest Stop 3 - This was a D-Star hop connecting to the Dallas K5TIT repeater. This was connected to the WAN port of a WRT54G, which acted as an AP to the rest stop located over 1000 ft away. The difficulty arose when I realized that I had used all of my high-gain 802.11 antennas and had only an 8db panel left. This allowed the rest stop operator to access the point with a USB wireless adapter, but just barely. I had one additional WRT54G and found a 2.4GHz yagi and set those up as a separate bridge to the actual rest stop. This was successful, and worked for the duration of the event.

Rest Stop 4 - This location used a direct 802.11b connection between the rest stop operators laptop and an access point provided to a local volunteers' home internet network. No additional information is currently available.

942. Re: [ntms-hsmm] 06 Wild Ride HSMM Initial Summary

Yahoo group: DAWG-HSMM
Date: 2006-05-21 21:10:08 UTC
From: John Barrett
Topic: 941 Message: 942

Rest Stop 2 -- I realized that the file sizes were too targe early in the first image, shrank the images and the 1st batch of uploads worked fine after a couple of false starts... 2nd batch failed completly a couple of hours later (entire link seemed to be down)

Or did my killing the transfer not actually kill it and the upload continued ?

----- Original Message -----
From: "J. Beadles" <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Sunday, May 21, 2006 2:48 PM
Subject: [ntms-hsmm] 06 Wild Ride HSMM Initial Summary

The HSMM training opportunity at the 2006 Wild Ride bicycle ride in Richardson, TX was generally successful, with the usual complications. Photos will be forthcoming.

LOCATION CONFIGURATION

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Yahoo! Groups Links

943. Re: 06 Wild Ride HSMM Initial Summary

Yahoo group: DAWG-HSMM
Date: 2006-05-22 02:32:29 UTC
From: J. Beadles
Topic: 941 Message: 943

Hey John, after re-reading my msg, I realize that I sounded a lot more critical than I meant to be (especially given my own errors). I've had a chance to review the photos, and it looks like you and RS4 were the only ones to to follow instructions!

I have no idea what would cause the link to fail. Did you try power cycling the whole thing?

--- In ntms-hsmm@yahoogroups.com, "John Barrett" <ke5crp@...> wrote:
>
> Rest Stop 2 -- I realized that the file sizes were too targe early in the
> first image, shrank the images and the 1st batch of uploads worked fine
> after a couple of false starts... 2nd batch failed completly a couple of
> hours later (entire link seemed to be down)
>
> Or did my killing the transfer not actually kill it and the upload continued
> ?
>
>
> ----- Original Message -----
> From: "J. Beadles" <jbeadles@...>
> To: <ntms-hsmm@yahoogroups.com>
> Sent: Sunday, May 21, 2006 2:48 PM
> Subject: [ntms-hsmm] 06 Wild Ride HSMM Initial Summary
>
>
> The HSMM training opportunity at the 2006 Wild Ride bicycle ride in
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> LOCATION CONFIGURATION
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available.
>
> Rest Stop 3 - This was a D-Star hop connecting to the Dallas K5TIT
> repeater. This was connected to the WAN port of a WRT54G, which
> acted as an AP to the rest stop located over 1000 ft away. The
> difficulty arose when I realized that I had used all of my high-gain
> 802.11 antennas and had only an 8db panel left. This allowed the
> rest stop operator to access the point with a USB wireless adapter,
> but just barely. I had one additional WRT54G and found a 2.4GHz
yagi
> and set those up as a separate bridge to the actual rest stop. This
> was successful, and worked for the duration of the event.
>
> Rest Stop 4 - This location used a direct 802.11b connection between
> the rest stop operators laptop and an access point provided to a
> local volunteers' home internet network. No additional information
> is currently available.
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> Yahoo! Groups Links
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944. 06 Wild Ride - HSMM Tasks

Yahoo group: DAWG-HSMM
Date: 2006-05-22 03:00:01 UTC
From: J. Beadles
Topic: 944 Message: 944

For the HSMM event, I gave each of the digital operators a set of tasks. These tasks were intended to simulate things that might have to be done in an operational environment. The goal was to get local hams thinking about how to use these tools and what to expect from their use.

EMAIL USING WINLINK - The Collin County ARES org has adopted Winlink for non-tactical messaging, especially for potential use in mass medical or inocculation events. Winlink allows for streamlined internet compatible email, over HF, VHF and Telnet links. Our county Emergency Coordinator, Bruce Dingman, N5BYL, put in a large amount of time helping to get the digital operators up on Winlink over Telnet.

Keven Simms KD5YVL, the digital operator for the Start/Stop, was able to establish email links with each rest stop. I was the only exception, as I had not gotten my winlink install finished up and had to rely on yahoo mail over the 802.11b links.

DIGITAL WEBCAMS & STILL PHOTOS - The digital operators were tasked to provide still photos or webcams where ever feasible. I put together an FTP site to receive the photos, and a scheduled process to publish them on the web every couple of minutes. In practice two things failed in the photo process. First, the scheduled process stopped at midnight the night before the event, and I didn't catch it. The photos did not process until I manually ran the script. Second, I forgot to adjust my script to account for .jpg filenames being upper or lower case. Thus, not all photos got processed until I fixed it.

A number of digital photos were FTPd by Start/Stop, RS1, RS2 and RS4. The network was not completed at RS3 until it was time to pull the network down. I ran the only webcam from my truck, connected to the access point at RS3. As mentioned in previous msgs, the digitizer is too poor to provide much detail. I loaded my still photos to the server after the event. The photos, under Asst. Comm. Mgr, show the D-Star systems at RS2 and RS3.

http://www.k5rwk.org/wr/

All in all, the best result we've had in the past couple of years. Thanks to all the operators who participated.

945. Re: [ntms-hsmm] Re: 06 Wild Ride HSMM Initial Summary

Yahoo group: DAWG-HSMM
Date: 2006-05-22 03:03:01 UTC
From: John Barrett
Topic: 941 Message: 945

No -- didnt try the power cycle -- it was the tail end and only had a few
pix to upload -- the bulk had already been sent up

Wasnt worried about the critical -- just wanted you to have the facts about
what happened :)

Besides -- trying to upload 1.8meg images on a 128k link woulda taken longer
than we were gonna be there :) :)

----- Original Message -----
From: "J. Beadles" <jbeadles@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Sunday, May 21, 2006 9:32 PM
Subject: [ntms-hsmm] Re: 06 Wild Ride HSMM Initial Summary

> Hey John, after re-reading my msg, I realize that I sounded a lot
> more critical than I meant to be (especially given my own errors).
> I've had a chance to review the photos, and it looks like you and RS4
> were the only ones to to follow instructions!
>
> I have no idea what would cause the link to fail. Did you try power
> cycling the whole thing?
>
> --- In ntms-hsmm@yahoogroups.com, "John Barrett" <ke5crp@...> wrote:
>>
>> Rest Stop 2 -- I realized that the file sizes were too targe early
> in the
>> first image, shrank the images and the 1st batch of uploads worked
> fine
>> after a couple of false starts... 2nd batch failed completly a
> couple of
>> hours later (entire link seemed to be down)
>>
>> Or did my killing the transfer not actually kill it and the upload
> continued
>> ?
>>
>>
>> ----- Original Message -----
>> From: "J. Beadles" <jbeadles@...>
>> To: <ntms-hsmm@yahoogroups.com>
>> Sent: Sunday, May 21, 2006 2:48 PM
>> Subject: [ntms-hsmm] 06 Wild Ride HSMM Initial Summary
>>
>>
>> The HSMM training opportunity at the 2006 Wild Ride bicycle ride in

>> Richardson, TX was generally successful, with the usual
>> complications. Photos will be forthcoming.
>>
>> LOCATION CONFIGURATION
>>
>> Start-Stop - This used 3 hops of 802.11, with Linksys WRT54G radios
>> running Sveasoft Alchemy as firmware. Bridging was performed using
>> WDS. Kevin KD5YVL reported that this was rock solid the entire
> time,
>> and that all tasks were successfully completed.
>>
>> Rest Stop 1 - This was intended to use an 802.11 client bridge to an
>> open AP volunteered by a local realty office. We were unable to
> make
>> the client bridge work, and a Sprint EVDO card was substituted as
> the
>> internet source. This was reported to work, but no other status
>> information has been made available at this time.
>>
>> Rest Stop 2 - This was a D-Star hop connecting to the Dallas K5TIT
>> repeater. This was connected to the WAN port of a WRT54G. The D-
>> Star ID-1 used a home-built 9 element Yagi built using plans
> provided
>> by Steve N5AC. The system was known to work when I set it up.
>> However, it was reported to have failed later in the event, possibly
>> as a result of sending megapixel photo images in violation of the
> pre-
>> event instructions. No additional information is currently
> available.
>>
>> Rest Stop 3 - This was a D-Star hop connecting to the Dallas K5TIT
>> repeater. This was connected to the WAN port of a WRT54G, which
>> acted as an AP to the rest stop located over 1000 ft away. The
>> difficulty arose when I realized that I had used all of my high-gain
>> 802.11 antennas and had only an 8db panel left. This allowed the
>> rest stop operator to access the point with a USB wireless adapter,
>> but just barely. I had one additional WRT54G and found a 2.4GHz
> yagi
>> and set those up as a separate bridge to the actual rest stop. This
>> was successful, and worked for the duration of the event.
>>
>> Rest Stop 4 - This location used a direct 802.11b connection between
>> the rest stop operators laptop and an access point provided to a
>> local volunteers' home internet network. No additional information
>> is currently available.
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>> Yahoo! Groups Links
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946. Wild Ride Rest Stop #4 Digital Access Point

Yahoo group: DAWG-HSMM
Date: 2006-05-23 19:55:24 UTC
From: Douglas Kilgore
Topic: 946 Message: 946

Wild Ride Rest Stop #4 was set up in a school parking lot in a residential area. A homeowner directly accross the street from the school agreed to let us use his high speed internet connection. This was supposed to be a easy setup because he had only one computer connected to his cable modem. It was just a matter of connecting the access point in place of the computer.

The access point used was a Linksys BEFW11S4 with a Linksys WSB24 signal booster attached. Two Airlink ASB-8DA 8dbi directional antennas with 18 inches of coax were used because that access point sends on one antenna and receives on a second,

On Thursday before the rally, the access point equipment was first positioned on a ledge high in the front window of the house looking out over bushes to the school parking lot. The wireless connection standing in the house was 100% at 11Mbps. When tested accross the street, there was not a usable signal. The equipment was then placed on the bottom window sill and the antennas were positioned outside of the window looking at the school through the bushes. The signal everywhere in the parking lot was then very high.

The problem was the metalized sunblock material on the window glass. With the antennas placed outside, the problem was resolved.

For security reasons, the antennas could not remained installed through an open window. So homeowner woke up early Saturday, opened the window slightly, and placed the antennas outside. He plugged in the access point and everything was a go. He and his wife received volunteer T-shirts.

He was a retired aerospace software engineer so he was very interested in what we were doing. He and his wife came over and visited the rest stop area during the rally.

Doug Kilgore KD5OUG

[Non-text portions of this message have been removed]

947. NMO mount wifi antenna

Yahoo group: DAWG-HSMM
Date: 2006-06-06 01:31:23 UTC
From: Wes johnston
Topic: 947 Message: 947

A few months ago, I asked this group about a NMO 5.7dB antenna from hyperlink. Went to order this $19 antenna from them, and now see that they have a $100 min order. Does anyone have any idea where I can get a comparable antenna? I'm just trying to get a decent antenna on the roof of our comms trailer.

Here's the hyperlink antenna http://www.hyperlinktech.com/web/hg2405unmo.php

I hope to have something by field day.

Wes

948. Re: [ntms-hsmm] NMO mount wifi antenna

Yahoo group: DAWG-HSMM
Date: 2006-06-06 02:48:19 UTC
From: Gregg Wonderly
Topic: 947 Message: 948

Wes johnston wrote:
> A few months ago, I asked this group about a NMO 5.7dB antenna from
> hyperlink. Went to order this $19 antenna from them, and now see that they
> have a $100 min order. Does anyone have any idea where I can get a
> comparable antenna? I'm just trying to get a decent antenna on the roof of
> our comms trailer.
>
> Here's the hyperlink antenna http://www.hyperlinktech.com/web/hg2405unmo.php

Wes, what about: http://sharperconcepts.zoovy.com/product/YSC-RE05U

Gregg Wonderly
W5GGW

949. Re: [ntms-hsmm] NMO mount wifi antenna

Yahoo group: DAWG-HSMM
Date: 2006-06-07 13:21:52 UTC
From: Ron Cole
Topic: 947 Message: 949

Here is a whold collection of various 2.4-2.5 Ghz
antennas many are NMO mount as requested.

http://www.tessco.com/products/displayProducts.do?groupId=360&subgroupId=61

Ron

--- Gregg Wonderly <gergg@...> wrote:

> Wes johnston wrote:
> > A few months ago, I asked this group about a NMO
> 5.7dB antenna from
> > hyperlink. Went to order this $19 antenna from
> them, and now see that they
> > have a $100 min order. Does anyone have any idea
> where I can get a
> > comparable antenna? I'm just trying to get a
> decent antenna on the roof of
> > our comms trailer.
> >
> > Here's the hyperlink antenna
> http://www.hyperlinktech.com/web/hg2405unmo.php
>
>
> Wes, what about:
> http://sharperconcepts.zoovy.com/product/YSC-RE05U
>
> Gregg Wonderly
> W5GGW
>
>
> ------------------------ Yahoo! Groups Sponsor
> ----------------------~-->
> You can search right from your browser? It's easy
> and it's free. See how.
>
http://us.click.yahoo.com/_7bhrC/NGxNAA/yQLSAA/5AhqlB/TM
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> Yahoo! Groups Links
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>
> ntms-hsmm-unsubscribe@yahoogroups.com

>
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>

Ron

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

950. New Graphic Site

Yahoo group: DAWG-HSMM
Date: 2006-06-12 19:33:13 UTC
From: Brandon Cruz
Topic: 950 Message: 950

Note: forwarded message attached.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

951. Virus Warning - Don't Open "Graphics" Message

Yahoo group: DAWG-HSMM
Date: 2006-06-12 21:24:58 UTC
From: Douglas Kilgore
Topic: 951 Message: 951

WARNING!!!

If you get an email with a subject "New Graphic Site", don't open it.
Just delete it. It's an HTML message that contains a Java Script worm.

For details on what it does, go to:
http://securityresponse.symantec.com/avcenter/venc/data/js.yamanner@...

Doug Kilgore KD5OUG

952. New Graphic Site

Yahoo group: DAWG-HSMM
Date: 2006-06-12 19:34:04 UTC
From: Brandon Cruz
Topic: 950 Message: 952

Note: forwarded message attached.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

953. Re: [ntms-hsmm] Virus Warning - Don't Open "Graphics" Message

Yahoo group: DAWG-HSMM
Date: 2006-06-14 02:58:05 UTC
From: Luke Simmons
Topic: 951 Message: 953

Hey, thanks for the warning, i did get that email luckily i read yours first. Thanks
kc0rtg

Douglas Kilgore <douglas.kilgore@...> wrote:
WARNING!!!

If you get an email with a subject "New Graphic Site", don't open it.
Just delete it. It's an HTML message that contains a Java Script worm.

For details on what it does, go to:
http://securityresponse.symantec.com/avcenter/venc/data/js.yamanner@...

Doug Kilgore KD5OUG

Yahoo! Groups Links

[Non-text portions of this message have been removed]

954. Article - Frequency sharing issues with Airgo 802.11n equipment

Yahoo group: DAWG-HSMM
Date: 2006-06-16 15:50:59 UTC
From: J. Beadles
Topic: 954 Message: 954

http://blogs.zdnet.com/Ou/index.php?p=247&tag=nl.e622

955. Link: 12mi WRT54 link for IRLP, VOIP

Yahoo group: DAWG-HSMM
Date: 2006-06-23 21:58:49 UTC
From: J. Beadles
Topic: 955 Message: 955

Here's a link to a page describing a 12 mile bridge using WRT54Gs

http://k6png.ham-radio-op.net:15426/802.11blink.htm

956. OS Hack to put Linux on the WRT54G v5 running VxWorks

Yahoo group: DAWG-HSMM
Date: 2006-06-27 17:53:28 UTC
From: J. Beadles
Topic: 956 Message: 956

OS Hack to put Linux on the WRT54G v5 running VxWorks

http://www.linuxdevices.com/news/NS6352077661.html

957. Local 802.11 hardware

Yahoo group: DAWG-HSMM
Date: 2006-07-06 20:15:01 UTC
From: J. Beadles
Topic: 957 Message: 957

Over the July 4th weekend, the local Frys' Electronics had the following products of interest:

$19 Airlink 10dB indoor omni antenna - white plastic antenna with short pigtail and an RP-SMA connector.

$29 TrendNet 2.4GHz lightning protection kit - A kit with a lightning arrestor, a length of ground wire and a small N to SMA pigtail. I didn't get a good enough look to see if the lighting arrestor was N or RP-N.

958. Help Needed to JTAG a Senao CB3+Deluxe

Yahoo group: DAWG-HSMM
Date: 2006-07-15 21:59:24 UTC
From: Douglas Kilgore
Topic: 958 Message: 958

I have a Senao/Engenius NL-2611CB3-PlusDeluxe Long Range Wireless Multi-Client Bridge which will no longer allow me access. Hardware reset doesn't work either.

The PC board has a 2 x 5 row pads for a connector. I suspect they might be for a JTAG port. Can anyone point me to directions for JTAGing this unit.

Doug Kilgore KD5OUG
kd5oug@...

959. Link: Satellite internet service comparison

Yahoo group: DAWG-HSMM
Date: 2006-08-08 12:29:25 UTC
From: J. Beadles
Topic: 959 Message: 959

http://www.copperhead.cc/wbhn.htm

Looks like things are getting cheaper!

960. Re: [ntms-hsmm] Link: Satellite internet service comparison

Yahoo group: DAWG-HSMM
Date: 2006-08-08 12:44:28 UTC
From: Keith Berry
Topic: 959 Message: 960

I have several friends with WildBlue and it is a very good service. Pricing is reasonable compared to other similar earth station services and there is even capability of billing onto your existing phone bill if you are an AT&T subscriber. See www.attwb.net/

73,
Keith KEØFV

----- Original Message ----
From: J. Beadles <jbeadles@...>
To: ntms-hsmm@yahoogroups.com
Sent: Tuesday, August 8, 2006 7:29:25 AM
Subject: [ntms-hsmm] Link: Satellite internet service comparison

http://www.copperhe ad.cc/wbhn. htm

Looks like things are getting cheaper!

[Non-text portions of this message have been removed]

961. 2006 Wild Ride pics on ARRL HSMM page

Yahoo group: DAWG-HSMM
Date: 2006-08-13 04:16:26 UTC
From: J. Beadles
Topic: 961 Message: 961

Two of our pics from the 2006 Wild Ride made it to the ARRL HSMM page.

http://www.arrl.org/hsmm/

962. Re: 2006 Wild Ride pics on ARRL HSMM page

Yahoo group: DAWG-HSMM
Date: 2006-08-13 16:45:07 UTC
From: TOM BLACKWELL (lt)
Topic: 961 Message: 962

I'd like to see coverage of this in the 'Main Street' computer magazines, and in the CES daily publications. (CES now incorporates what we used to call the 'COMDEX'). I'd also like to see publications showing beginners how to get started with amateur radio applications with HSMM - - the things that can be done only with a ham license. ARRL offers one book - that needs a few additional chapters. I see opportunities to encourage new people to get licenses and become involved with the many things we do.

"J. Beadles" wrote:

> Two of our pics from the 2006 Wild Ride made it to the ARRL HSMM page.
>
> http://www.arrl.org/hsmm/
>
>
> Yahoo! Groups Links
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--
Regards, TOM BLACKWELL, PO Box 25403, Dallas, Texas 75225
ARRL SM NTX

[Non-text portions of this message have been removed]

963. Tarrant County, Texas communities offering wireless access

Yahoo group: DAWG-HSMM
Date: 2006-08-14 16:35:38 UTC
From: Douglas Kilgore
Topic: 963 Message: 963

I just came across this article:

http://www.dfw.com/mld/dfw/news/local/15267383.htm

Doug

964. can I go 900' wireless with standard equipment (non-amateur)

Yahoo group: DAWG-HSMM
Date: 2006-08-14 16:46:47 UTC
From: Dave NØRQ
Topic: 964 Message: 964

This question isn't truly ham-related, but merely wireless router-related.
(But it is on behalf of a non-profit private school, so I hope you don't mind.)

Is it possible to have a wireless network, using somewhat standard
(not too expensive) equipment span a distance between 2 buildings
of 800-900 feet? One building has metal siding, but we could put up
an outside antenna on it.

It wouldn't have to be blazingly fast, just a decent connection, without
an outlay of oodles of cash. (Modest outlays are OK.)

One end would be a DSL supply, the other end is a typical PC ~900'
away.

Thanks.
Dave N0RQ

[Non-text portions of this message have been removed]

965. RE: [ntms-hsmm] can I go 900' wireless with standard equipment (non-amateur)

Yahoo group: DAWG-HSMM
Date: 2006-08-14 17:06:11 UTC
From: David Vondrasek
Topic: 964 Message: 965

At present I live on 5 acres. My busn is on the front 1/2, my house is on the back half. A span of 900 feet at least. I mounted a high gain WI-FI Omni right out side the office and use another at the house <mounted on my ham tower> connected to a router configured as a repeater. I get wi-fi over the whole 5 acers.. In fact, I been adventurous and mowed the land while using my laptop :)

> -----Original Message-----
> From: Dave NØRQ [mailto:n0rq-lists@...]
> Sent: Monday, August 14, 2006 11:47 AM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] can I go 900' wireless with standard
> equipment (non-amateur)
>
> This question isn't truly ham-related, but merely wireless
> router-related.
> (But it is on behalf of a non-profit private school, so I
> hope you don't mind.)
>
> Is it possible to have a wireless network, using somewhat standard
> (not too expensive) equipment span a distance between 2 buildings
> of 800-900 feet? One building has metal siding, but we could put up
> an outside antenna on it.
>
> It wouldn't have to be blazingly fast, just a decent
> connection, without
> an outlay of oodles of cash. (Modest outlays are OK.)
>
> One end would be a DSL supply, the other end is a typical PC ~900'
> away.
>
> Thanks.
> Dave N0RQ
>
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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966. RE: [ntms-hsmm] can I go 900' wireless with standard equipment (non-amateur)

Yahoo group: DAWG-HSMM
Date: 2006-08-14 17:46:31 UTC
From: Randall VanVoorhis
Topic: 964 Message: 966

If you use the DD-WRT (third-party firmware) on the Linksys router you can boost the output power of the router and that would help. By default the Linksys xmit power is 28mw. With the firmware upgrade you can adjust the xmit power as high as 250mw.

Randy VanVoorhis
Technology Consultant

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of David Vondrasek
Sent: Monday, August 14, 2006 12:06 PM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] can I go 900' wireless with standard equipment (non-amateur)

At present I live on 5 acres. My busn is on the front 1/2, my house is on the back half. A span of 900 feet at least. I mounted a high gain WI-FI Omni right out side the office and use another at the house <mounted on my ham tower> connected to a router configured as a repeater. I get wi-fi over the whole 5 acers.. In fact, I been adventurous and mowed the land while using my laptop :)

> -----Original Message-----
> From: Dave NØRQ [mailto:n0rq-lists@sbcgloba
<mailto:n0rq-lists%40sbcglobal.net> l.net]
> Sent: Monday, August 14, 2006 11:47 AM
> To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> Subject: [ntms-hsmm] can I go 900' wireless with standard
> equipment (non-amateur)
>
> This question isn't truly ham-related, but merely wireless
> router-related.
> (But it is on behalf of a non-profit private school, so I
> hope you don't mind.)
>
> Is it possible to have a wireless network, using somewhat standard
> (not too expensive) equipment span a distance between 2 buildings
> of 800-900 feet? One building has metal siding, but we could put up
> an outside antenna on it.
>
> It wouldn't have to be blazingly fast, just a decent
> connection, without
> an outlay of oodles of cash. (Modest outlays are OK.)

>
> One end would be a DSL supply, the other end is a typical PC ~900'
> away.
>
> Thanks.
> Dave N0RQ
>
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

967. Re: [ntms-hsmm] can I go 900' wireless with standard equipment (non-amateur)

Yahoo group: DAWG-HSMM
Date: 2006-08-14 18:17:23 UTC
From: Dave NØRQ
Topic: 964 Message: 967

Thanks for the input, David.

Can these WIFI Omnis be plugged into a typical wireless router (on the DSL end)?
I'm thinking that maybe you open the router box, unsolder the built-in antenna,
and solder in a new piece of coax.... is that right?

How do they connect at the PC end?

And is there a good place to purchase such items, and a ballpark price?

Like I said, I don't know much about this subject. My routers are all hard-wired;
my entire house is wired with Cat5e.

- Dave

----- Original Message -----
From: David Vondrasek
To: ntms-hsmm@yahoogroups.com
Sent: Monday, August 14, 2006 12:06
Subject: RE: [ntms-hsmm] can I go 900' wireless with standard equipment (non-amateur)

At present I live on 5 acres. My busn is on the front 1/2, my house is on
the back half. A span of 900 feet at least. I mounted a high gain WI-FI Omni
right out side the office and use another at the house <mounted on my ham
tower> connected to a router configured as a repeater. I get wi-fi over the
whole 5 acers.. In fact, I been adventurous and mowed the land while using
my laptop :)

> -----Original Message-----
> From: Dave NØRQ [mailto:n0rq-lists@...]
> Sent: Monday, August 14, 2006 11:47 AM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] can I go 900' wireless with standard
> equipment (non-amateur)
>
> This question isn't truly ham-related, but merely wireless
> router-related.
> (But it is on behalf of a non-profit private school, so I
> hope you don't mind.)
>
> Is it possible to have a wireless network, using somewhat standard
> (not too expensive) equipment span a distance between 2 buildings
> of 800-900 feet? One building has metal siding, but we could put up
> an outside antenna on it.
>

> It wouldn't have to be blazingly fast, just a decent
> connection, without
> an outlay of oodles of cash. (Modest outlays are OK.)
>
> One end would be a DSL supply, the other end is a typical PC ~900'
> away.
>
> Thanks.
> Dave N0RQ
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

968. RE: [ntms-hsmm] can I go 900' wireless with standard equipment (non-amateur)

Yahoo group: DAWG-HSMM
Date: 2006-08-14 18:35:02 UTC
From: David Vondrasek
Topic: 964 Message: 968

My router at the shop is a Belkin, it as external attena connections <SMA>
The omni ant's have N-type. I got the cable with the right end and all from
a guy on ebay. The antenna was like $50, the routers on ebay run around 75..
I think I have maybe $200 in the whole systems.

> -----Original Message-----
> From: Dave NØRQ [mailto:n0rq-lists@...]
> Sent: Monday, August 14, 2006 1:17 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: Re: [ntms-hsmm] can I go 900' wireless with standard
> equipment (non-amateur)
>
> Thanks for the input, David.
>
> Can these WIFI Omnis be plugged into a typical wireless
> router (on the DSL end)?
> I'm thinking that maybe you open the router box, unsolder the
> built-in antenna,
> and solder in a new piece of coax.... is that right?
>
> How do they connect at the PC end?
>
> And is there a good place to purchase such items, and a
> ballpark price?
>
> Like I said, I don't know much about this subject. My
> routers are all hard-wired;
> my entire house is wired with Cat5e.
>
> - Dave
>
>
>
> ----- Original Message -----
> From: David Vondrasek
> To: ntms-hsmm@yahoogroups.com
> Sent: Monday, August 14, 2006 12:06
> Subject: RE: [ntms-hsmm] can I go 900' wireless with
> standard equipment (non-amateur)
>
>
> At present I live on 5 acres. My busn is on the front 1/2,
> my house is on
> the back half. A span of 900 feet at least. I mounted a

> high gain WI-FI Omni
> right out side the office and use another at the house
> <mounted on my ham
> tower> connected to a router configured as a repeater. I
> get wi-fi over the
> whole 5 acers.. In fact, I been adventurous and mowed the
> land while using
> my laptop :)
>
> > -----Original Message-----
> > From: Dave NØRQ [mailto:n0rq-lists@...]
> > Sent: Monday, August 14, 2006 11:47 AM
> > To: ntms-hsmm@yahoogroups.com
> > Subject: [ntms-hsmm] can I go 900' wireless with standard
> > equipment (non-amateur)
> >
> > This question isn't truly ham-related, but merely wireless
> > router-related.
> > (But it is on behalf of a non-profit private school, so I
> > hope you don't mind.)
> >
> > Is it possible to have a wireless network, using somewhat
> standard
> > (not too expensive) equipment span a distance between 2 buildings
> > of 800-900 feet? One building has metal siding, but we
> could put up
> > an outside antenna on it.
> >
> > It wouldn't have to be blazingly fast, just a decent
> > connection, without
> > an outlay of oodles of cash. (Modest outlays are OK.)
> >
> > One end would be a DSL supply, the other end is a typical PC ~900'
> > away.
> >
> > Thanks.
> > Dave N0RQ
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
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> >
> > Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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969. 2006 Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2006-08-15 03:01:36 UTC
From: J. Beadles
Topic: 969 Message: 969

We'll be providing ham support at the Plano Balloon Festival again this year. The festival will be held on September 22,23 and 24 with balloon flights in the morning and evening each day. Approximately 65 hot air balloons will be involved in the event. We provide communications support by tracking the balloons and crews from liftoff to recovery.

Once again I'm trying to include an video over HSMM component, but I'm about ready to give up for the mean time. I'm trying to put a high quality surveillance camera at one end of the field so that the field Net Control can see what is going on. For the past couple of years we've been trying to do some form of inexpensive video over ethernet solution but nothing has come to pass. Even USB video digitizers have fallen short. Does anyone know of an internet video server that works that runs less than $200? I've put out a few hundred $$$ for experimentation, and that budget is just about dry. My preference is NOT to put a desktop or laptop at the remote camera site, as that pumps up the $$ and power requirements.

970. Re: can I go 900' wireless with standard equipment (non-amateur)

Yahoo group: DAWG-HSMM
Date: 2006-08-15 15:08:09 UTC
From: rearden6
Topic: 964 Message: 970

Go buy two linksys WRT54GL routers for about $60 each. Then head to ebay or fab-corp and buy two high gain (probably in the 15db+ range) patch antennas and the cable with the appropriate connection ends. I recommend panel antennas because you will get a stronger>faster signal from those and you didn't really specify that you needed to wifi the general area. You could do something use one onmi and a patch for the remote if you wanted. The clearest line of sight (no metal buildings) will give you the best performance. If you do want to wifi the area, use omnis, WDS and WPA, understanding that high gain omnis have a pretty narrow beam vertical width.
Download the latest firmware from www.dd-wrt.com and get the v23 SP1 or v24 if you want to get the latest alpha version. You want to get the generic image. Get the voip image and you can have your own internal (secure) phone network with something like a sipura ATA. You can either set it up as WDS or as a client. Also do a frequency sweep and determine the least use channel. The appropriate channels are 1 6 and 12, or if it is crowded you can get buy with 1 4 8 12 or something close to that. A wifi channel is much larger than the numbered channels. You can up the power using dd-wrt but there are some rules and diminishing returns, so somehing in the 50-800mw should keep you inside of both concerns.

For cheap router check out the $5 fon router offering.

rearden

--- In ntms-hsmm@yahoogroups.com, "Randall VanVoorhis" <rmvanvoorhis@...> wrote:
>
> If you use the DD-WRT (third-party firmware) on the Linksys router you can
> boost the output power of the router and that would help. By default the
> Linksys xmit power is 28mw. With the firmware upgrade you can adjust the
> xmit power as high as 250mw.
>
> Randy VanVoorhis
> Technology Consultant
>
> _____
>
> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
> Of David Vondrasek
> Sent: Monday, August 14, 2006 12:06 PM

> To: ntms-hsmm@yahoogroups.com
> Subject: RE: [ntms-hsmm] can I go 900' wireless with standard equipment
> (non-amateur)
>
>
>
> At present I live on 5 acres. My busn is on the front 1/2, my house
is on
> the back half. A span of 900 feet at least. I mounted a high gain
WI-FI Omni
> right out side the office and use another at the house <mounted on
my ham
> tower> connected to a router configured as a repeater. I get wi-fi
over the
> whole 5 acers.. In fact, I been adventurous and mowed the land while
using
> my laptop :)
>
> > -----Original Message-----
> > From: Dave NØRQ [mailto:n0rq-lists@sbcgloba
> <mailto:n0rq-lists%40sbcglobal.net> l.net]
> > Sent: Monday, August 14, 2006 11:47 AM
> > To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> > Subject: [ntms-hsmm] can I go 900' wireless with standard
> > equipment (non-amateur)
> >
> > This question isn't truly ham-related, but merely wireless
> > router-related.
> > (But it is on behalf of a non-profit private school, so I
> > hope you don't mind.)
> >
> > Is it possible to have a wireless network, using somewhat standard
> > (not too expensive) equipment span a distance between 2 buildings
> > of 800-900 feet? One building has metal siding, but we could put up
> > an outside antenna on it.
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> > It wouldn't have to be blazingly fast, just a decent
> > connection, without
> > an outlay of oodles of cash. (Modest outlays are OK.)
> >
> > One end would be a DSL supply, the other end is a typical PC ~900'
> > away.
> >
> > Thanks.
> > Dave N0RQ
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >

> >
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> >
> > Yahoo! Groups Links
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> [Non-text portions of this message have been removed]
>

971. [Fwd: [Ham-80211] Interesting use]

Yahoo group: DAWG-HSMM
Date: 2006-08-18 06:08:05 UTC
From: Douglas Kilgore
Topic: 971 Message: 971

-------- Original Message --------
Subject: [Ham-80211] Interesting use
Date: Thu, 17 Aug 2006 16:49:33 -0500
From: Steve <kb9mwr@...>
Reply-To: TAPR Mailing List for Ham Radio Use of 802.11
<ham-80211@...>
To: <ham-80211@...>

A few locals have been laying with a derivative of Asterisk called Trixbox... which is basically an open source PBX . (And Trixbox is a web front end for Asterisk) I have a Zyxel wifi phone and have been looking into possible two-way radio integration: http://www.allstarlink.org/ And if nothing else, since that route seems expensive, a simple FXS interface to an under used autopatch could be interesting.

Asterisk is some very powerful stuff, perfect anyone who is familiar with Linux and likes to tinker. What's neat is when you add a WiFi phone to the mix, it's has the potential as 2.4 GHz digital voice ham radio.

---
ham-80211 mailing list
ham-80211@...
https://lists.tapr.org/cgi-bin/mailman/listinfo/ham-80211

972. Merkati Mini

Yahoo group: DAWG-HSMM
Date: 2006-08-26 01:08:34 UTC
From: Douglas Kilgore
Topic: 972 Message: 972

Here's a link to a new product that the guys at Seatle Wireless were looking at:
http://meraki.net/products.html

A mesh network running Linux for $49 (special).

Doug KD5OUG

973. Article: Calmesh Emergency Response Mesh System

Yahoo group: DAWG-HSMM
Date: 2006-08-28 15:47:55 UTC
From: J. Beadles
Topic: 973 Message: 973

http://www.calit2.net/newsroom/article.php?id=923

Thanks to John Galvin N5TIM

974. Article: Steerable cantenna

Yahoo group: DAWG-HSMM
Date: 2006-08-29 14:14:28 UTC
From: J. Beadles
Topic: 974 Message: 974

Kinda silly, but fun

http://www.smithstuff.net/steercan/Steercan.htm

975. 9/11 Program: Digital Messaging for EMCOMM: Winlink2000

Yahoo group: DAWG-HSMM
Date: 2006-09-01 15:09:23 UTC
From: Douglas Kilgore
Topic: 975 Message: 975

Winlink2000: Digital Messaging for EMCOMM is the topic at the 9/11/2006 monthly meeting of the Richardson Wireless Klub.

Winlink2000 is a system of programs for hams that allows digital messaging over HF, VHF-UHF and microwave frequencies. Using some of the components of the system, familiar email programs such as Outlook Express and Netscape Messenger can be used to send and receive messages. A live demo will show how it works.

Please mark your calendar and plan to attend.

Date: Sept. 11, 2006
Time: 7:00pm
Location:
St. Barnabas Presbyterian Church
1220 West Beltline (east of Richardon high school)
Richardson, TX 75080

For additional information:
Doug Kilgore KD5OUG
Ph 972-231-8539
www.k5rwk.org

976. Military WiFi Antenna Available

Yahoo group: DAWG-HSMM
Date: 2006-09-07 15:50:25 UTC
From: Randall Dunning
Topic: 976 Message: 976

From the Army Radios Yahoo Group

Posted by: "Patricia Gibbons" wa6ube@... HYPERLINK
"http://profiles.yahoo.com/wa6ube"wa6ube
<mailto:wa6ube@...?Subject=Re: Military%20wifi%20antennas%3A>
Wed Sep 6, 2006 11:24 pm (PST)

Wow .. Shakespeare's new military antenna catalog includes
A broadband wifi antenna rated at 25 watts, and 2.5:1 or better VSWR
500 MHz thru 2500 MHz ..

http://www.shakespeare-military.com/catalog/sectionwifi.pdf

Trish

Looks interesting but if you SHOP where the GOVERNMENT SHOPS
you can expect to PAY what the GOVERNMENT PAYS! =8-0

RD - KC5QHH

[Non-text portions of this message have been removed]

977. RE: [ntms-hsmm] Military WiFi Antenna Available

Yahoo group: DAWG-HSMM
Date: 2006-09-07 19:23:54 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 976 Message: 977

Am I the only one who spotted the typo in the brochure?

:-)

"5000 MHz to 25000 MHz"?

:-)
I think it should have read "500 MHz to 2500 MHz"

Vy 73,

Gordon Beattie, W2TTT

201.314.6964

w2ttt@...

w2ttt@...

w2ttt@...

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of Randall Dunning
Sent: Thursday, September 07, 2006 11:50 AM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Military WiFi Antenna Available

From the Army Radios Yahoo Group

Posted by: "Patricia Gibbons" wa6ube@arrl. <mailto:wa6ube%40arrl.net> net
HYPERLINK
"http://profiles. <http://profiles.yahoo.com/wa6ube> yahoo.com/wa6ube"wa6ube
<mailto:wa6ube@arrl. <mailto:wa6ube%40arrl.net> net?Subject=Re:
Military%20wifi%20antennas%3A>
Wed Sep 6, 2006 11:24 pm (PST)

Wow .. Shakespeare's new military antenna catalog includes
A broadband wifi antenna rated at 25 watts, and 2.5:1 or better VSWR
500 MHz thru 2500 MHz ..

http://www.shakespe
<http://www.shakespeare-military.com/catalog/sectionwifi.pdf>
are-military.com/catalog/sectionwifi.pdf

Trish

Looks interesting but if you SHOP where the GOVERNMENT SHOPS
you can expect to PAY what the GOVERNMENT PAYS! =8-0

RD - KC5QHH

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

978. Re: [ntms-hsmm] Military WiFi Antenna Available

Yahoo group: DAWG-HSMM
Date: 2006-09-07 21:20:46 UTC
From: Keith Berry
Topic: 976 Message: 978

Everything else is correct in the brouchure, just whoever type the specs made a typo.

Keith KE0FV

----- Original Message ----
From: "J. Gordon Beattie, Jr., W2TTT" <w2ttt@...>
To: ntms-hsmm@yahoogroups.com
Sent: Thursday, September 7, 2006 2:23:54 PM
Subject: RE: [ntms-hsmm] Military WiFi Antenna Available

Am I the only one who spotted the typo in the brochure?

:-)

"5000 MHz to 25000 MHz"?

:-)
I think it should have read "500 MHz to 2500 MHz"

Vy 73,

Gordon Beattie, W2TTT

201.314.6964

w2ttt@...

w2ttt@...

w2ttt@...

From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com] On Behalf
Of Randall Dunning
Sent: Thursday, September 07, 2006 11:50 AM
To: ntms-hsmm@yahoogrou ps.com
Subject: [ntms-hsmm] Military WiFi Antenna Available

From the Army Radios Yahoo Group

---------- --------- --------- --------- --------- -------
Posted by: "Patricia Gibbons" wa6ube@arrl. <mailto:wa6ube% 40arrl.net> net
HYPERLINK
"http://profiles. <http://profiles. yahoo.com/ wa6ube> yahoo.com/wa6ube" wa6ube
<mailto:wa6ube@ arrl. <mailto:wa6ube% 40arrl.net> net?Subject= Re:
Military%20wifi% 20antennas% 3A>
Wed Sep 6, 2006 11:24 pm (PST)

Wow .. Shakespeare' s new military antenna catalog includes
A broadband wifi antenna rated at 25 watts, and 2.5:1 or better VSWR
500 MHz thru 2500 MHz ..

http://www.shakespe
<http://www.shakespe are-military. com/catalog/ sectionwifi. pdf>
are-military. com/catalog/ sectionwifi. pdf

Trish
--- --- --- --- --- ---

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RD - KC5QHH

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

979. 9/11 Program: Digital Messaging for EMCOMM: Winlink2000

Yahoo group: DAWG-HSMM
Date: 2006-09-10 23:59:18 UTC
From: Kilgore
Topic: 975 Message: 979

Reminder --
Winlink2000: Digital Messaging for EMCOMM is the topic at the 9/11/2006 monthly meeting of the Richardson Wireless Klub.

Winlink2000 is a system of programs for hams that allows digital messaging over HF, VHF-UHF and microwave frequencies. Using some of the components of the system, familiar email programs such as Outlook Express and Netscape Messenger can be used to send and receive messages. A live demo will show how it works.

Please mark your calendar and plan to attend.

Date: Sept. 11, 2006
Time: 7:00pm
Location:
St. Barnabas Presbyterian Church
1220 West Beltline (east of Richardon high school)
Richardson, TX 75080

For additional information:
RWK Web Site: www.k5rwk.org

Doug Kilgore KD5OUG
Ph 972-231-8539
kd5oug@...

980. Article: Proposed unlicensed data under 900 MHz

Yahoo group: DAWG-HSMM
Date: 2006-09-13 20:51:01 UTC
From: J. Beadles
Topic: 980 Message: 980

http://arstechnica.com/news.ars/post/20060913-7730.html

981. [Fwd: [TexasRSChat] Gas-line broadband a pipe dream?]

Yahoo group: DAWG-HSMM
Date: 2006-09-13 23:47:16 UTC
From: Kilgore
Topic: 981 Message: 981

-------- Original Message --------
Subject: [TexasRSChat] Gas-line broadband a pipe dream?
Date: Wed, 13 Sep 2006 13:45:34 -0700 (PDT)
From: <mjculross@...>
Reply-To: TexasRSChat@yahoogroups.com
To: TexasRSChat@yahoogroups.com

And you thought that BPL "pollution" of the amateur radio spectrum was all there was to worry about...

Gas-line broadband a pipe dream?

So intense is the drive to deliver high-speed Internet service to American homes that entrepreneurs have seemingly tapped every conceivable pathway: fiber-optic cable, the air, even power lines.

Now the relentless pursuit for faster, cheaper broadband is leading to perhaps the last unclaimed conduit to your house: natural gas pipes.

Nethercomm, a San Diego-area start-up, says it has developed technology to send lightning-fast broadband and TV services via wireless signals through the pipes that deliver the fuel used to heat homes and fire up stoves.

Gas pipes serve 62% of U.S. households, says the American Gas Association. Broadband in Gas, or BIG, could give consumers a third high-speed option at low costs and speeds that far surpass today's phone and cable offerings. It also could bring fast Internet to unserved rural areas. But, so far, the idea has been met with both excitement and skepticism.

"It's been a Coke and Pepsi (battle) between cable and phone companies," says Nethercomm founder and CEO Patrick Nunally, 42, a veteran high-tech entrepreneur. "We're in a position to come in and provide real competition."

More important, Nunally says, the pipes could be used by pay-TV providers to compete with cable and satellite. In fact, he says, Nethercomm and local gas companies would lease the wireless spectrum to any provider for myriad services: cable giants seeking extra bandwidth for their high-definition TV channels, phone companies looking to pare their multibillion-dollar investments in fiber-optic cable, even businesses such as medical providers with high-bandwidth needs.

Gas companies, besides earning revenue from leasing their pipes, could use the broadband service to remotely monitor the integrity of their lines and read gas meters.

"I think there is a general pulse of excitement" about the technology among publicly owned gas companies, says Bob Beauregard of the American Public Gas Association, which represents 650 gas providers serving 5 million rural customers.

Nunally says he hatched the idea in 2002 while searching for a new TV and broadband artery to the home that didn't require digging up streets. Around the same time, some California utilities were stringing fiber cable through gas lines to offer broadband. But the process was expensive.

Nunally says he had a "light bulb on the head" moment: wireless. Normally, the twists and turns of a gas pipe would cause wireless signals to lose strength. But ultrawideband, a new unlicensed wireless technology, sends out pulses of radio energy across such a wide swath of frequencies that if some data packets are lost, others can easily make it to the home.

Also, federal rules that limit the strength of ultrawideband signals don't apply in underground pipes. So, Nunally says, power levels can be boosted to provide each household bandwidth of up to 6 gigabits per second, several times that of a cable provider. Yet power is low enough so that signals can share the pipes with natural gas without starting a fire, he says.

A similar initiative, broadband over electric lines, is further along, with services offered in Manassas, Va., and Cincinnati and a rollout planned for Dallas this year. But the electric companies don't offer TV services and incur high costs to bend signals around transformers.

Broadband in Gas would require installation of an ultrawideband transmitter that's linked to an Internet backbone or pay-TV facility at a gas company's network hub. A receiver would be placed at a customer's gas meter. Build-out costs are about $200 per household, Nethercomm says. By contrast, broadband over power lines costs about $600 per household, while phone and cable TV networks each cost well over $1,000 per home to build, says West Technology Research Solutions.

Broadband in Gas "really has the potential to accelerate adoption of these technologies," says George West of West Technology.

Yet some say BIG is, well, a pipe dream. "It's really easy to make these kinds of claims, but it's much harder to prove in practice," says JupiterResearch analyst Joe Laszlo.

Nunally says the company, which has tested the service, plans field trials next year in San Diego, Chicago and Atlanta. But officials of Nicor Gas in Chicago and Atlanta Gas Light say they have no such plans.

"We're intrigued by the technology, but we never got that far in our discussions," says Nicor spokeswoman Margi Schiemann.

Nunally says BIG could sharply cut costs for companies such as Verizon Communications, which is spending $20 billion on fiber rollouts. Verizon and Internet provider EarthLink say they have no immediate plans to

deploy it.

And Freescale Semiconductor, the ultrawideband company that was working with Nethercomm, recently shifted course to focus on its handset business. "It would be hard for anybody to say (BIG) doesn't have tremendous potential," says Freescale's Jon Adams.

USA TODAY

982. Micro PCs

Yahoo group: DAWG-HSMM
Date: 2006-10-02 14:39:23 UTC
From: J. Beadles
Topic: 982 Message: 982

We may have had postings on this before, but if we have, I can't find them. A few companies are releasing fanless micro form factor PCs in the $100 range.

EWay Technology Systems Corp in Taiwan has a number of units, the cheapest being a 200MHz cpu with 128Mb of ram for $99. They also have an 800MHz unit with 256Mb of Ram for $189. http://www.ewayco.com/

Norhtec has the MicroClient Jr., an x86 compatible pc with various options. Can bolt on to the VESA hole pattern on the back of many LCD monitors and can boot from compact flash card. Base cost is $120, and has several options.
http://www.norhtec.com/products/mcjr/index.html

Any of these might be useful for dedicated HSMM servers, or maybe field portable emcomm web servers.

983. HSMM on 802.11a hardware

Yahoo group: DAWG-HSMM
Date: 2006-11-14 06:31:36 UTC
From: kf4yfd
Topic: 983 Message: 983

Has anyone setup a HSMM link on 802.11a? I am currently looking into deploying such a setup in Anchorage, Alaska. I would like to know what power output and antenna gain others are using and what range others are getting.

My power output will be 700mw into a 12 dbi omni at the access point and the same power output with a 27dbi dish at the "client" site. According to the link calculator at http://www.ecommwireless.com/cgi-local/wireless.main.cgi this setup would give me a maximum range of 41 miles. At 15 miles the link becomes decent with a 1% estimated outage rate (acceptable for HAM usage).

984. [Fwd: [TMD700A] stolen rig]

Yahoo group: DAWG-HSMM
Date: 2006-12-05 02:38:48 UTC
From: Kilgore
Topic: 984 Message: 984

-------- Original Message --------
Subject: [TMD700A] stolen rig
Date: Mon, 4 Dec 2006 17:29:25 -0600
From: whensley11@...
Reply-To: TMD700A@yahoogroups.com
To: TMD700A@yahoogroups.com

This is one of those things that makes you sick.

My mobile rig was stolen ... as in the entire vehicle along with three (3) ham rigs!

Besides the vehicle, which I don't think I will see again, are these rigs:

FT-100D - S/N 1L280214

TM-D700A - S/N 30400003

TM-331 - S/N not known at this time

Thanks for keeping your eyes open!

73,
...Kim - WG8S

Community email addresses:
Post message: TMD700A@onelist.com
Subscribe: TMD700A-subscribe@onelist.com
Unsubscribe: TMD700A-unsubscribe@onelist.com
List owner: TMD700A-owner@onelist.com

Shortcut URL to this page:
http://www.onelist.com/community/TMD700A
Yahoo! Groups Links

985. [Fwd: [ARRL-80211B] The Hinternet]

Yahoo group: DAWG-HSMM
Date: 2006-12-06 04:47:31 UTC
From: Kilgore
Topic: 985 Message: 985

```
-------- Original Message --------
Subject: [ARRL-80211B] The Hinternet
Date: Tue, 5 Dec 2006 18:42:30 -0500
From: John Champa <k8ocl@...>
Reply-To: k8ocl@...
To: ARRL-80211B@...

Hello!

Do you ever get the feeling that what we are doing here with 802.xx whatever
is so exotic that nobody, especially other Hams understands what we are up
to?

Well, do not despair! As Rod Mitchell, KL1Y, in North Pole, Alaska (I am
serious!) pointed out tonight, "we have arrived", as they say! (HI):

http://en.wikipedia.org/wiki/High_speed_multimedia

Have a great evening!

John - K8OCL
```

986. Re: [ntms-hsmm] [Fwd: [ARRL-80211B] The Hinternet]

Yahoo group: DAWG-HSMM
Date: 2006-12-06 13:03:07 UTC
From: kf4yfd@juno.com
Topic: 985 Message: 986

I created the afore mentioned Wikipedia page while I was deployed to Kuwait. Boredom is an excellent motivator.

If you look at the 'history' tab you will see my callsign for all major edits. Life is funny sometimes..

Thank you,
John Phelps
KF4YFD

987. Re: [ntms-hsmm] [Fwd: [ARRL-80211B] The Hinternet]

Yahoo group: DAWG-HSMM
Date: 2006-12-06 13:10:36 UTC
From: John Champa
Topic: 985 Message: 987

John,

Well, John, you did a fine job, and a great service to all of us in helping get the word out.

Thank you!
John - K8OCL

----Original Message Follows----
From: "kf4yfd@..." <kf4yfd@...>
Reply-To: ntms-hsmm@yahoogroups.com
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] [Fwd: [ARRL-80211B] The Hinternet]
Date: Wed, 6 Dec 2006 13:03:07 GMT

I created the afore mentioned Wikipedia page while I was deployed to Kuwait. Boredom is an excellent motivator.

If you look at the 'history' tab you will see my callsign for all major edits. Life is funny sometimes..

Thank you,
John Phelps
KF4YFD

988. Re: [ARRL-80211B] Hijacking: Re: [ARRL-80211B] Please check out the "new" HSMM web site

Yahoo group: DAWG-HSMM
Date: 2006-12-21 19:02:38 UTC
From: John Champa
Topic: 988 Message: 988

Wow! That's cool. Thanks for the help, Jeff.

----Original Message Follows----
From: jeff@...
Reply-To: "Amateur Radio Using 802.11(x)" <ARRL-80211B@...>,
jeff@...
To: ARRL-80211B@...
Subject: Re: [ARRL-80211B] Hijacking: Re: [ARRL-80211B] Please check out the
"new" HSMM web site
Date: Thu, 21 Dec 2006 12:31:33 -0600

> What do you use to view http://www.arrl.org/hsmm/ ?

Hi Chuck:

In its orginal form, the Wayback engine:

http://web.archive.org/web/20060104031310/www.arrl.org/hsmm/

This is what I refer hams to that ask about HSMM... also a few other
groups have nice pages, the North Texas one being one of them (I think the
wayback links also work).

989. 07 Wild Ride HSMM Activity

Yahoo group: DAWG-HSMM
Date: 2007-01-15 23:04:27 UTC
From: J. Beadles
Topic: 989 Message: 989

All,

For the past 3 years, KD5OUG and have organized HSMM communications support for the Richardson Wild Ride bike ride which is held in May. It has been a gruelling event to organize, since we've had to put a lot together from scratch and do a lot of advance planning. It has been worth it, because we have gotten experience in deploying the equipment and identifying equipment characteristics. However, personally, I think I've learned everything I've wanted to learn.

Participation lately from the HSMM community has been low, and Doug has had to recruit operators from the general population to work the HSMM part of the event. This leads me to think that there aren't enough operators interested in HSMM to continue to do this at the Wild Ride.

It is my intent to cease doing much HSMM work at the Wild Ride unless there is sufficient popular interest to keep going. If anyone wants to do it for practice, I will be happy to help train and participate. If anyone is interested, please let me know and tell me what you would like to achive.

990. 2006 Wild Ride Article In CQ-VHF Magazine

Yahoo group: DAWG-HSMM
Date: 2007-02-06 16:31:37 UTC
From: Douglas Kilgore
Topic: 990 Message: 990

The Winter 2007 issue of CQ-VHF magazine carries an article on coverage of the Richardson Regional Cancer Center's 2006 Wild Ride bike rally. The three page article is complete with color photos. It's great publicity for ham's digital coverage of the event. It shows that we are doing something with HSMM in the Dallas area.

Digital modes used include 802.11b, D-Star and Sprint EVDO. Participating hams represented several clubs in the Dallas area. Hopefully the article will encourage other clubs to experiment with higher speed digital communications.

The article was previously published in the Aug. 2006 issue of the Richardson Wireless Klub's Chawed Rag newsletter.

Doug Kilgore KD5OUG

[Non-text portions of this message have been removed]

991. Re: 2006 Wild Ride Article In CQ-VHF Magazine

Yahoo group: DAWG-HSMM
Date: 2007-02-09 19:10:19 UTC
From: J. Beadles
Topic: 990 Message: 991

Just got a copy. Good article, Doug!

--- In ntms-hsmm@yahoogroups.com, "Douglas Kilgore"
<kilgore1317@...> wrote:
>
> The Winter 2007 issue of CQ-VHF magazine carries an article on
coverage of the Richardson Regional Cancer Center's 2006 Wild Ride
bike rally. The three page article is complete with color photos.
It's great publicity for ham's digital coverage of the event. It
shows that we are doing something with HSMM in the Dallas area.
>
> Digital modes used include 802.11b, D-Star and Sprint EVDO.
Participating hams represented several clubs in the Dallas area.
Hopefully the article will encourage other clubs to experiment with
higher speed digital communications.
>
> The article was previously published in the Aug. 2006 issue of the
Richardson Wireless Klub's Chawed Rag newsletter.
>
> Doug Kilgore KD5OUG
>
> [Non-text portions of this message have been removed]
>

992. RE: [ntms-hsmm] Re: 2006 Wild Ride Article In CQ-VHF Magazine

Yahoo group: DAWG-HSMM
Date: 2007-02-09 21:28:39 UTC
From: John Champa
Topic: 990 Message: 992

Yes, you guys all look great! Very impressive performance!
Congratulations to the NTMS HSMM crew, one and all.
Very happy you all got lots of well deserved recognition.

73,
John
K8OCL

----Original Message Follows----
From: "J. Beadles" <jbeadles@...>
Reply-To: ntms-hsmm@yahoogroups.com
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: 2006 Wild Ride Article In CQ-VHF Magazine
Date: Fri, 09 Feb 2007 19:10:19 -0000

Just got a copy. Good article, Doug!

--- In ntms-hsmm@yahoogroups.com, "Douglas Kilgore"
<kilgore1317@...> wrote:
>
> The Winter 2007 issue of CQ-VHF magazine carries an article on
coverage of the Richardson Regional Cancer Center's 2006 Wild Ride
bike rally. The three page article is complete with color photos.
It's great publicity for ham's digital coverage of the event. It
shows that we are doing something with HSMM in the Dallas area.
>
> Digital modes used include 802.11b, D-Star and Sprint EVDO.
Participating hams represented several clubs in the Dallas area.
Hopefully the article will encourage other clubs to experiment with
higher speed digital communications.
>
> The article was previously published in the Aug. 2006 issue of the
Richardson Wireless Klub's Chawed Rag newsletter.
>
> Doug Kilgore KD5OUG
>
> [Non-text portions of this message have been removed]
>

993. New PR and 3.4GHz transverters

Yahoo group: DAWG-HSMM
Date: 2007-02-12 00:21:15 UTC
From: John Phelps
Topic: 993 Message: 993

I have again been putting some HSMM information on the internet and have uploaded 2 self created files to wikimedia commons. These are small "band charts" that show the hsmm, part15, and AMSAT frequencies relative to one another. They can be found at :
http://commons.wikimedia.org/wiki/Image:Hsmmnet-freq-sharing-5.8.gif and http://commons.wikimedia.org/wiki/Image:Hsmmnet-freq-sharing-2.4.gif. I'm shure these will come in handy for presentations. If they are inaccurate in any way (besides not being to scale, I already know) please let me know.
I have also been looking into the 2.4-to-3.4GHz transverters that are available online and was wondering if anyone has used these and what the lowest price around is. I have found one from HyperWireless for $455, but that is the lowest so far and still a bit too expensive for my taste.

An off note... does anyone know when the FCC will start handing out vanity callsigns again? It seems I have been waiting forever... thanks

Happy Hamming,
John KF4YFD

[Non-text portions of this message have been removed]

994. Re: [ntms-hsmm] New PR and 3.4GHz transverters

Yahoo group: DAWG-HSMM
Date: 2007-02-12 05:11:52 UTC
From: S. Cash Olsen
Topic: 993 Message: 994

John,

You might want to check on these files the one regarding 2.4GHz is not there and the suggestion is that it might have been deleted.

Cash

----- Original Message -----
From: John Phelps
To: ntms-hsmm@yahoogroups.com
Sent: Sunday, February 11, 2007 5:21 PM
Subject: [ntms-hsmm] New PR and 3.4GHz transverters

I have again been putting some HSMM information on the internet and have uploaded 2 self created files to wikimedia commons. These are small "band charts" that show the hsmm, part15, and AMSAT frequencies relative to one another. They can be found at : http://commons.wikimedia.org/wiki/Image:Hsmmnet-freq-sharing-5.8.gif and http://commons.wikimedia.org/wiki/Image:Hsmmnet-freq-sharing-2.4.gif. I'm shure these will come in handy for presentations. If they are inaccurate in any way (besides not being to scale, I already know) please let me know. I have also been looking into the 2.4-to-3.4GHz transverters that are available online and was wondering if anyone has used these and what the lowest price around is. I have found one from HyperWireless for $455, but that is the lowest so far and still a bit too expensive for my taste.

An off note... does anyone know when the FCC will start handing out vanity callsigns again? It seems I have been waiting forever... thanks

Happy Hamming,
John KF4YFD

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

995. Re: [ntms-hsmm] New PR and 3.4GHz transverters

Yahoo group: DAWG-HSMM
Date: 2007-02-12 14:24:43 UTC
From: John Phelps
Topic: 993 Message: 995

I found the problem with the 2.4GHz link... at the end of the link I accidentally put a period, as if it were a sentence. Computers are so picky.

Here it is again, without the period.
http://commons.wikimedia.org/wiki/Image:Hsmmnet-freq-sharing-2.4.gif

On 2/11/07, S. Cash Olsen <KD5SSJ@...> wrote:
>
> John,
>
> You might want to check on these files the one regarding 2.4GHz is not
> there and the suggestion is that it might have been deleted.
>
> Cash
>
>
> ----- Original Message -----
> From: John Phelps
> To: ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>
> Sent: Sunday, February 11, 2007 5:21 PM
> Subject: [ntms-hsmm] New PR and 3.4GHz transverters
>
> I have again been putting some HSMM information on the internet and have
> uploaded 2 self created files to wikimedia commons. These are small "band
> charts" that show the hsmm, part15, and AMSAT frequencies relative to one
> another. They can be found at :
> http://commons.wikimedia.org/wiki/Image:Hsmmnet-freq-sharing-5.8.gif and
> http://commons.wikimedia.org/wiki/Image:Hsmmnet-freq-sharing-2.4.gif. I'm
> shure these will come in handy for presentations. If they are inaccurate
> in
> any way (besides not being to scale, I already know) please let me know.
> I have also been looking into the 2.4-to-3.4GHz transverters that are
> available online and was wondering if anyone has used these and what the
> lowest price around is. I have found one from HyperWireless for $455, but
> that is the lowest so far and still a bit too expensive for my taste.
>
> An off note... does anyone know when the FCC will start handing out vanity
> callsigns again? It seems I have been waiting forever... thanks
>
> Happy Hamming,
> John KF4YFD
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]

>
>
>

[Non-text portions of this message have been removed]

996. [Fwd: [tapr-announce] TAPR Open Hardware License -- Public Comment Period]

Yahoo group: DAWG-HSMM
Date: 2007-02-14 10:59:12 UTC
From: Kilgore
Topic: 996 Message: 996

For your info.

Doug KD5OUG

-------- Original Message --------
Subject: [tapr-announce] TAPR Open Hardware License -- Public Comment Period
Date: Tue, 13 Feb 2007 15:19:59 -0500
From: John Ackermann N8UR <jra@...>
To: tapr-announce@...

Hi all --

For the last several months, I've been working, as a TAPR project, to develop an open-source-like license for hardware projects. We've recently posted a 0.9 version for public comment, and welcome your input.

The license is aimed at "real" hardware (the stuff you solder on) rather than firmware, VHDL, or other software-like elements. There are significant differences in the legal approach you need to take with hardware, and this agreement is aimed at those differences. As far as we know, this is the first attempt to create an open source framework around hardware.

You can download the TAPR Open Hardware License from http://www.tapr.org/OHL.

While I'm happy for comments however I receive them, there is a discussion forum at http://technocrat.net/OHL and I'd prefer to get input there so the discussion can be open. The public comment period ends on March 7.

(In addition to the OHL, we've created a companion license, the TAPR Noncommercial Hardware License, that is identical except that it limits products to non-commercial use. While that's not completely consistent with Open Source models, the fact that it costs real money to offer boards, kits, or complete products led us to think this would be valuable in some situations.)

I really look forward to comments from all quarters.

Thanks,

John

---
tapr-announce mailing list

NOTE: This list includes all addresses currently subscribed to any TAPR mailing list. Please don't try to manually unsubscribe from this list; it won't work. If you unsubscribe from all other TAPR mailing lists, you will automatically be unsubscribed from this one.

997. Need info for presentation

Yahoo group: DAWG-HSMM
Date: 2007-02-15 23:02:07 UTC
From: John Phelps
Topic: 997 Message: 997

I am readying a HSMM presentation for my local radio club and am having trouble finding the FCC ruling that states the legality of using Part15 gear on Part97 bands. Looking for a document or ruling.

If anyone else has found this I would greatly appreciate it.
In my looking however, I did find where the FCC officially stated that OFDM ie 802.11A/G is not spread spectrum but UWB and therefore (in my interpretation of Part97) would not need auto power control or have a 100watt power limit. It is FCC 01-158 .

Thanks to all,
~John
no longer KF4YFD
now KL4YFD

[Non-text portions of this message have been removed]

998. Re: Need info for presentation

Yahoo group: DAWG-HSMM
Date: 2007-02-16 01:56:46 UTC
From: J. Beadles
Topic: 997 Message: 998

John,

Here's another one for you:

Sec. 97.309, paragraph 4 -
An amateur station transmitting a RTTY or data emission using a digital code specified in this paragraph may use any technique whose technical characteristics have been documented publicly, such as CLOVER, G-TOR, or PacTOR, for the purpose of facilitating communications.

http://a257.g.akamaitech.net/7/257/2422/12feb20041500/edocket.access.gpo.gov/cfr_2004/octqtr/47cfr97.309.htm

The 802.11x specs are published IEEE specs, and so fall under this section.

If you go running through part 15, you'll run across Sec. 15.305, which states:

PCS devices operating under this subpart shall be certified by the Commission under the procedures in subpart J of part 2 of this chapter before marketing. The application for certification must contain sufficient information to demonstrate compliance with the requirements of this subpart.

Part 97 has no such section, except for power amplifiers (97.315 and 97.317), and that is much more limited in scope.

--- In ntms-hsmm@yahoogroups.com, "John Phelps" <akz3r0@...> wrote:
>
> I am readying a HSMM presentation for my local radio club and am having
> trouble finding the FCC ruling that states the legality of using Part15
> gear on Part97 bands. Looking for a document or ruling.
>
> If anyone else has found this I would greatly appreciate it.
> In my looking however, I did find where the FCC officially stated that
> OFDM ie 802.11A/G is not spread spectrum but UWB and therefore (in my
> interpretation of Part97) would not need auto power control or have a
> 100watt power limit. It is FCC 01-158 .
>
> Thanks to all,

> ~John
> no longer KF4YFD
> now KL4YFD
>
>
> [Non-text portions of this message have been removed]
>

999. Computer assistance needed.

Yahoo group: DAWG-HSMM
Date: 2007-02-20 17:05:32 UTC
From: Jerry Karlovich, KD5OM
Topic: 999 Message: 999

Can anybody tell me what would cause my Cup Holder (CD Drive) to constantly pop open? This just started yesterday. I rebooted, nothing is running other than Windows XP Pro. I reach down and nudge it closed. About a minute later the LED flickers and it pops open again. And on it goes. Could it be a software issue or mechanical issue?

Jerry KD5OM

1000. Re: [ntms-hsmm] Computer assistance needed.

Yahoo group: DAWG-HSMM
Date: 2007-02-20 17:40:23 UTC
From: Gregg Wonderly
Topic: 999 Message: 1000

Jerry Karlovich, KD5OM wrote:
> Can anybody tell me what would cause my Cup Holder (CD Drive) to
> constantly pop open? This just started yesterday. I rebooted, nothing
> is running other than Windows XP Pro. I reach down and nudge it closed.
> About a minute later the LED flickers and it pops open again. And on it
> goes. Could it be a software issue or mechanical issue?

Most likely, this is mechanical. You might check the door open button to make sure it is not stuck due to a grimy finger or two causing gunk to build up in the gap around it and the door.

Gregg Wonderly
W5GGW

1001. Re: Computer assistance needed.

Yahoo group: DAWG-HSMM
Date: 2007-02-20 18:13:35 UTC
From: Jerry Karlovich, KD5OM
Topic: 999 Message: 1001

Thanks Gregg,

I already blew it out with that compressed air in a can stuff. My work around is I just placed a SRV CD into it and it seems to like Stevie. (Stevie Ray Vaughn & Double Trouble) As long as it has a CD to hang on to it stays shut. Must be some sort of in-security issue and next call is to Dr. Phil.

Interesting that when I'm in "My Computer" and I right click on the drive, if the tray is closed there is a choice that says "Eject" and when the tray is open that choice usually says "Close". Regardless if it's open or closed it always says "Eject". CD-Rom (read only) drives are cheap nowadays so maybe it's gonna be a trip to Fry's later today.

Your "He knows enough to be considered dangerous" computer tech,
Jerry KD5OM

> Most likely, this is mechanical. You might check the door open button to make
> sure it is not stuck due to a grimy finger or two causing gunk to build up in
> the gap around it and the door.
>
> Gregg Wonderly
> W5GGW
>

1002. FW: D-Star and HSMM Radios

Yahoo group: DAWG-HSMM
Date: 2007-02-23 09:38:02 UTC
From: John Champa
Topic: 1002 Message: 1002

Hello!

Can anyone please give Joel a hand? If so, let me know ASAP please.

Thanks and 73,
John - K8OCL

----Original Message Follows----
From: "Kleinman, Joel, N1BKE" <n1bke@...>
To: <k8ocl@...>
Subject: D-Star and HSMM Radios
Date: Tue, 20 Feb 2007 14:44:55 -0500

Hi John,

Steve Ford passed along the photos. Can you point me to a general
write-up about the event?

73, Joel
Joel P. Kleinman, N1BKE
Managing Editor, QST
ARRL - the national association for Amateur Radio
225 Main St, Newington CT 06111-1494 USA
Voice: 860.594.0273
Fax: 860.594.0259
E-mail: qst@...
ARRLWeb: www.arrl.org/qst/

73, Joel
Joel P. Kleinman, N1BKE
Managing Editor, QST
ARRL - the national association for Amateur Radio
225 Main St, Newington CT 06111-1494 USA
Voice: 860.594.0273
Fax: 860.594.0259
E-mail: qst@...
ARRLWeb: www.arrl.org/qst/

-----Original Message-----

From: John Champa [mailto:k8ocl@... <mailto:k8ocl@...>]

Sent: Thursday, January 04, 2007 4:14 PM

To: Ford, Steve, WB8IMY

Subject: D-Star + HSMM Radios

Photos with captions....

2006 Wild Ride D-Star bridge radio servicing Rest Stop 3. The battery powered station used a D-Star ID-1 connected to the Dallas K5TIT repeater to feed an HSMM bridge radio pointed at the rest stop across the street. (Photo by N5OOM)

http://www.k5rwk.org/WR/comm2still/DSC03800.JPG
<http://www.k5rwk.org/WR/comm2still/DSC03800.JPG>

2006 Wild Ride D-Star bridge radio servicing Rest Stop 2. The battery powered station used a D-Star ID-1 connected to the Dallas K5TIT repeater to feed an HSMM bridge radio pointed at the rest stop across the street. From left to Right, John Barrett KE5CRP, Dave Best KD5RYM.

(Photo by N5OOM)

http://www.k5rwk.org/WR/comm2still/DSC03809.JPG
<http://www.k5rwk.org/WR/comm2still/DSC03809.JPG>

Hams experimenting with Winlink over HSMM at the 2006 Wild Ride Rest Stop 3. The internet signal originates in downtown Dallas 40 miles away, is received at a D-Star radio across the street and repeated via an HSMM 802.11b for the final 1000 feet. From left to right (unknown), Bruce Dingman N5BYL, Chadwick Stelzl KD5UMO, Jim Shultz W5OMG (at the

computer) and Amelia Shultz KD5TXQ.

Here's the link to the whole photo set.

http://www.k5rwk.org/WR/ <http://www.k5rwk.org/WR/>

[Non-text portions of this message have been removed]

1003. Re: FW: D-Star and HSMM Radios

Yahoo group: DAWG-HSMM
Date: 2007-02-23 12:28:24 UTC
From: J. Beadles
Topic: 1002 Message: 1003

Will do, John.

--- In ntms-hsmm@yahoogroups.com, "John Champa" <k8ocl@...> wrote:
>
> Hello!
>
> Can anyone please give Joel a hand? If so, let me know ASAP please.
>
> Thanks and 73,
> John - K8OCL
>
> ----Original Message Follows----
> From: "Kleinman, Joel, N1BKE" <n1bke@...>
> To: <k8ocl@...>
> Subject: D-Star and HSMM Radios
> Date: Tue, 20 Feb 2007 14:44:55 -0500
>
> Hi John,
>
> Steve Ford passed along the photos. Can you point me to a general
> write-up about the event?
>
> 73, Joel
> Joel P. Kleinman, N1BKE
> Managing Editor, QST
> ARRL - the national association for Amateur Radio
> 225 Main St, Newington CT 06111-1494 USA
> Voice: 860.594.0273
> Fax: 860.594.0259
> E-mail: qst@...
> ARRLWeb: www.arrl.org/qst/
>
>
>
> 73, Joel
> Joel P. Kleinman, N1BKE
> Managing Editor, QST
> ARRL - the national association for Amateur Radio
> 225 Main St, Newington CT 06111-1494 USA
> Voice: 860.594.0273
> Fax: 860.594.0259
> E-mail: qst@...
> ARRLWeb: www.arrl.org/qst/
>
>

>
> -----Original Message-----
>
> From: John Champa [mailto:k8ocl@... <mailto:k8ocl@...>]
>
> Sent: Thursday, January 04, 2007 4:14 PM
>
> To: Ford, Steve, WB8IMY
>
> Subject: D-Star + HSMM Radios
>
> Photos with captions....
>
>
>
> 2006 Wild Ride D-Star bridge radio servicing Rest Stop 3. The
battery
> powered station used a D-Star ID-1 connected to the Dallas K5TIT
> repeater to feed an HSMM bridge radio pointed at the rest stop
across
> the street. (Photo by N5OOM)
>
>
>
> http://www.k5rwk.org/WR/comm2still/DSC03800.JPG
> <http://www.k5rwk.org/WR/comm2still/DSC03800.JPG>
>
> 2006 Wild Ride D-Star bridge radio servicing Rest Stop 2. The
battery
> powered station used a D-Star ID-1 connected to the Dallas K5TIT
> repeater to feed an HSMM bridge radio pointed at the rest stop
across
> the street. From left to Right, John Barrett KE5CRP, Dave Best
KD5RYM.
>
> (Photo by N5OOM)
>
> http://www.k5rwk.org/WR/comm2still/DSC03809.JPG
> <http://www.k5rwk.org/WR/comm2still/DSC03809.JPG>
>
> Hams experimenting with Winlink over HSMM at the 2006 Wild Ride Rest
> Stop 3. The internet signal originates in downtown Dallas 40 miles
away,
> is received at a D-Star radio across the street and repeated via an
HSMM
> 802.11b for the final 1000 feet. From left to right (unknown), Bruce
> Dingman N5BYL, Chadwick Stelzl KD5UMO, Jim Shultz W5OMG (at the
>
> computer) and Amelia Shultz KD5TXQ.
>

> Here's the link to the whole photo set.
>
> http://www.k5rwk.org/WR/ <http://www.k5rwk.org/WR/>
>
>
>
> [Non-text portions of this message have been removed]
>

1004. question for the group

Yahoo group: DAWG-HSMM
Date: 2007-02-25 13:21:46 UTC
From: Wes Johnston, AI4PX
Topic: 1004 Message: 1004

I know there are a lot of people here that are in other ham and aprs groups, so many of you may know I'm in the SC State Guard. I've written a database for them that tracks resources such as people, equipment and evacuees. This database runs under PERL/Apache on the laptop in our comms trailer(s). Typically, we'll have one "server" laptop and 3 or 4 "client" laptops. I need to synchronize the data created in the field with the server located in our armory. Since this database will likely be used after a major catastrophy, there may be no internet available to us. We have funding on the way for a satellite dish for the roof of the comms trailer, but that's not here yet. And that'll only solve the problem for one comms trailer.

One of the guys in the SCSG is a private pilot and he and I were discussing using his plane as a digipeater. Then it dawned on me that we could use his plane as a packet regenerating repeater at 9600. That way the data link would appear to be one hop via his plane and there'd be no configuration in the ground stations... they'd just connect at 9600 to the armory. And if another aircraft needed to relief the first, the two pilots would coordinate turning off one regen repeater in one plane and on in the other. Folks on the ground wouldn't know it had happened.... and this solves the hidden transmitter problem. a 440 repeater is small enough to fit in the cabin of any aircraft. Seems like a win win.... but it's only 9600 baud.

Now if we could go faster (like 802.11b) it'd simplify things. Last summer during the annual inspection of the aircraft, we had a 6ghz rated NMO in the belly of the plane. Now the problem with using 802.11 is that there are simply too many of them for the plane to hear... noise floor is too high. So we need something quieter or less common. I did see an article at one time about substituting the pll xtal in a wrt54g to bring it fully into the 2.4hamband.... but there may be a better option.

So now... my question is: does any one know any 900mhz or 2.4gig equipment that will talk 110miles line of sight (the plane can be at 10,000feet "orbiting" the armory in the center of SC. Using a 15db yagi on the end of the link in the field is OK.... 15degree beam width would allow users to point the antenna in "that general direction", but the antenna on the plane has to be an omni with relatively low gain so that the plane can bank in turns and the field stations do not fall out of the horizontal lobe.
So far I've assumed that the plane would be circling over Columbia SC to cover the whole state. A more likely scenareo is that the coast of SC has no internet access, so the plane will circle midway between columbia and the coast giving us a distance of 60 to 70 miles per hop.

Any suggestions or thoughts?
Wes
--

In theory there is no difference between practice and theory.

[Non-text portions of this message have been removed]

1005. Re: [ntms-hsmm] question for the group

Yahoo group: DAWG-HSMM
Date: 2007-02-26 15:17:27 UTC
From: Kilgore
Topic: 1004 Message: 1005

I'm interested in finding out more about your database system. The type of transactions being sent and whether each client laptop has the complete database or just the local details. But that doesn't answer the question you asked.

Our group in Dallas has supported the Wild Ride Bike Rally for the last three years. We have tried to use HSMM to connect reststops to the internet in order to send pictures and information digitally back to Net Control at the Start/Finish line.

Over the years we have experienced successes and failures. We can identify with your concern of the RF noise floor. One major problem we had in our first years was the RF noise floor. We tried to make a link from a city building to a bridging access point on top of the 16 story Nortel building about 1/4 mile away. Although we used directional antennas on both ends, we couldn't make the link because (we think) Nortel used WiFi on many floors creating a very noisy RF environment when looking at it with a high gain antenna. We resorted to placing a bridging AP in the middle of a field to get the signal to the Start/Finish area. (An article in the Winter 2007 Edition of CQ-VHF magazine shows what we did last year.)

In 2006 we used D-Star to connect two farthest reststops to a D-Star repeater in downtown Dallas. The longest link was made 30 miles line-of-sight with omni antennas on both ends. While the 128k bps speed was slow compared to 802.11b, it got the job done. Is it feasible to fly a D-Star repeater?

I have limited knowledge of the D-Star system so I will defer to others to answer.

Doug Kilgore KD5OUG
kd5oug@...

Wes Johnston, AI4PX wrote:

>I know there are a lot of people here that are in other ham and aprs groups,
>so many of you may know I'm in the SC State Guard. I've written a database
>for them that tracks resources such as people, equipment and evacuees. This
>database runs under PERL/Apache on the laptop in our comms trailer(s).
>Typically, we'll have one "server" laptop and 3 or 4 "client" laptops. I
>need to synchronize the data created in the field with the server located in
>our armory. Since this database will likely be used after a major
>catastrophy, there may be no internet available to us. We have funding on
>the way for a satellite dish for the roof of the comms trailer, but that's
>not here yet. And that'll only solve the problem for one comms trailer.
>

>One of the guys in the SCSG is a private pilot and he and I were discussing
>using his plane as a digipeater. Then it dawned on me that we could use his
>plane as a packet regenerating repeater at 9600. That way the data link
>would appear to be one hop via his plane and there'd be no configuration in
>the ground stations... they'd just connect at 9600 to the armory. And if
>another aircraft needed to relief the first, the two pilots would
>coordinate turning off one regen repeater in one plane and on in the other.
>Folks on the ground wouldn't know it had happened.... and this solves
>the hidden transmitter problem. a 440 repeater is small enough to fit in
>the cabin of any aircraft. Seems like a win win.... but it's only 9600
>baud.
>
>Now if we could go faster (like 802.11b) it'd simplify things. Last
>summer during the annual inspection of the aircraft, we had a 6ghz rated NMO
>in the belly of the plane. Now the problem with using 802.11 is that there
>are simply too many of them for the plane to hear... noise floor is too
>high. So we need something quieter or less common. I did see an article
>at one time about substituting the pll xtal in a wrt54g to bring it fully
>into the 2.4hamband.... but there may be a better option.
>
>So now... my question is: does any one know any 900mhz or 2.4gig equipment
>that will talk 110miles line of sight (the plane can be at 10,000feet
>"orbiting" the armory in the center of SC. Using a 15db yagi on the end of
>the link in the field is OK.... 15degree beam width would allow users to
>point the antenna in "that general direction", but the antenna on the plane
>has to be an omni with relatively low gain so that the plane can bank in
>turns and the field stations do not fall out of the horizontal lobe.
>So far I've assumed that the plane would be circling over Columbia SC to
>cover the whole state. A more likely scenareo is that the coast of SC has
>no internet access, so the plane will circle midway between columbia and the
>coast giving us a distance of 60 to 70 miles per hop.
>
>Any suggestions or thoughts?
>Wes
>
>

1006. HSMM identification

Yahoo group: DAWG-HSMM
Date: 2007-02-26 16:22:22 UTC
From: kf4yfd
Topic: 1006 Message: 1006

I have written a linux script for HSMM identification that is easy to use, or at least easier than others I have found online, all you do is change the callsign from XXXXXX to yours. It should be suitable for use in a Mikrotik router, but I have not tried it.
Feel free to post it anywhere and everywhere.

John
KL4YFD

----------CODE----------

```
#! /bin/bash
# Linux ping script for amateur radio TCP/IPv4
# Pings the broadcast address (255.255.255.255) 4 times
# with your "callsign" and "for id"
# Suitable for embedded devices with 'busybox'
# Copyright GNU General Public License February 26 2007
# John Phelps - KL4YFD
# Change the 'callsign' variable to your callsign
callsign="XXXXXX"

space="20"
forid="20464f52204944"
for ((x=0;x<${#callsign};x++));
do hexcall="$hexcall$(echo -n ${callsign:x:1} | hexdump -e '"%x"')"
done
hexcall=$space$hexcall$forid
ping -b -c 4 -p $hexcall 255.255.255.255
exit 0
```

----------CODE----------

1007. RE: [ntms-hsmm] HSMM identification

Yahoo group: DAWG-HSMM
Date: 2007-02-26 17:28:12 UTC
From: John Champa
Topic: 1006 Message: 1007

John,

Looks good. I will post it over on the TAMU HSMM list.

Thanks!

73,
John
K8OCL

----Original Message Follows----
From: "kf4yfd" <akz3r0@...>
Reply-To: ntms-hsmm@yahoogroups.com
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] HSMM identification
Date: Mon, 26 Feb 2007 16:22:22 -0000

I have written a linux script for HSMM identification that is easy to
use, or at least easier than others I have found online, all you do is
change the callsign from XXXXXX to yours. It should be suitable for
use in a Mikrotik router, but I have not tried it.
Feel free to post it anywhere and everywhere.

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done
hexcall=$space$hexcall$forid
ping -b -c 4 -p $hexcall 255.255.255.255
exit 0
```

```
----------------CODE-----------------
```

1008. Re: [ntms-hsmm] HSMM identification

Yahoo group: DAWG-HSMM
Date: 2007-02-26 17:24:35 UTC
From: Walt DuBose
Topic: 1006 Message: 1008

Also, please see...
http://home.satx.rr.com/wdubose/hsmm/Ping_Callsign_ID_HowTo.html

73,

Walt/K5YFW

kf4yfd wrote:
> I have written a linux script for HSMM identification that is easy to
> use, or at least easier than others I have found online, all you do is
> change the callsign from XXXXXX to yours. It should be suitable for
> use in a Mikrotik router, but I have not tried it.
> Feel free to post it anywhere and everywhere.
>
> John
> KL4YFD
>
> ----------CODE- --------- --
>
```
> #! /bin/bash
> # Linux ping script for amateur radio TCP/IPv4
> # Pings the broadcast address (255.255.255. 255) 4 times
> # with your "callsign" and "for id"
> # Suitable for embedded devices with 'busybox'
> # Copyright GNU General Public License February 26 2007
> # John Phelps - KL4YFD
> # Change the 'callsign' variable to your callsign
> callsign="XXXXXX"
>
> space="20"
> forid="20464f522049 44"
> for ((x=0;x<${#callsign };x++));
> do hexcall="$hexcall$ (echo -n ${callsign:x: 1} | hexdump -e '"%x"')"
> done
> hexcall=$space$ hexcall$forid
> ping -b -c 4 -p $hexcall 255.255.255. 255
> exit 0
```
>
> ------------ -----CODE- --------- --------
>

1009. [Fwd: [illinoisdigitalham] Re: D-STARHigh-Speed 1.2 GHz 128 Kb IP Data]

Yahoo group: DAWG-HSMM
Date: 2007-03-05 17:12:58 UTC
From: Kilgore
Topic: 1009 Message: 1009

Interesting...
Doug KD5OUG

-------- Original Message --------
Subject: [illinoisdigitalham] Re: D-STARHigh-Speed 1.2 GHz 128 Kb IP Data
Date: Mon, 05 Mar 2007 04:19:56 -1000
From: Ron Hashiro <rhashiro@...>
Reply-To: illinoisdigitalham@yahoogroups.com
To: illinoisdigitalham@yahoogroups.com

I've had my ID-1's for about a year. I use it off-and-on, between projects.

It works fine, but I noticed that when I hook up an 802.11b access point at the "far" end of the IP link, that there was a lag in getting email traffic to flow compared to a direct connect without the 802.11b access point.

When it was wired directly, I could casually browse web pages, while the email client on the laptop managed to pull an email with a large video file attachment "silently". I didn't realize it had done so because I did not see a drop in performance on the web browser side.

Prior to that, I used the ID-1s and high gain antennas (they're small at 1.2 Ghz. 1/8 the size of 2m) to bounce the sigs to the destination. I bounced the sigs off of two buildings (a 30 story residential condo, then an office building on top of a hill) to get S1 analog signals to go a total length of about 5 files.

It can also do S5 analog signals reflecting off a mountain and travelling a total of 120 miles. (That's not a typo. That's one hundred, twenty miles.). When one end is a high gain mobile (vertical) antenna, got it to travel about the same length and barely got in on digital voice. Time did not allow us to try out the digital data option over the same path.

I've since given away the access point (only costed me a few dollars) and have put the ID-1s on the side while I complete an APRS satellite project, plus a few other things.

When time permits, I'll build a JNOS system (or Linux SMTP server) and connect the ID-1s and a 802.11g access point as proof of concept for an emergency comm email system and education at the ham club meeting. Not too many local hams interested in multi-simultaneous technologies such as IP and computing, or APRS and satellites, or APRS, satellites and photography.

Bouncing 1.2 Ghz signals off of "hard" RF objects is still my favorite enjoyment of 1.2 Ghz. I'm surrounded by buildings except for about 40 degrees of visibility that there's no condos in my way.

Ron Hashiro, AH6RH
Honolulu, HI
http://ronhashiro.htohananet.com/am-radio/dstar/
http://ronhashiro.htohananet.com/am-radio/in-hawaii.html

Yahoo! Groups Links

1010. [Fwd: [Ham-80211] Ubiquiti SR9] 900Mhz

Yahoo group: DAWG-HSMM
Date: 2007-03-05 22:23:49 UTC
From: Kilgore
Topic: 1010 Message: 1010

for your info>

doug

-------- Original Message --------
Subject: [Ham-80211] Ubiquiti SR9
Date: Mon, 5 Mar 2007 14:56:30 -0600
From: Steve <kb9mwr@...>
Reply-To: TAPR Mailing List for Ham Radio Use of 802.11
<ham-80211@...>
To: ham-80211 <ham-80211@...>

Alright, perhaps I should have posted more about it.

http://www.ubnt.com/sr9_faq.php4
http://www.wlanparts.com/product/SR9

It's about the same price as the Aerocomm ConnexLink, but a lot faster. At almost a watt, comparable power. While the Aerocomm units are FHSS, these are not, they are 802.11 like clones, so you can have them in 802.11b = DSSS or 802.11g = OFDM.

I found a new notes:
There are a few requirements one must follow with SR9 cards, that have been pointed out by Ubiquiti:
*) The card does not perform well if rate exceeds 18Mbps
*) 802.11b mode is recommended, as 802.11g is very prone to interference with the SR9
*) You must use long preamble at all times
This persons testing has shown that the optimal TX power setting is 15.

I stumbled into only one other report so far. Where they "punched 5 miles through some trees and houses. Using attic mounted antennas (13db) and the Ubiquiti SR9 cards they could get a signal to noise between 10 and 20 and move a couple of megs of data at the home."

Since 2.4 is so trashed, this is interesting. And I'd like to hear more reports where people use them in similar "less than ideal" situations. I noticed they sell a 900MHz Cavity Filter, so that makes you wonder if thats going to be needed or for just really bad areas...

You could add a 3 watt Hyperlink bidierectional amp to it, for plug and play people. It really boils down to how well it does with other near by signals. But even with that pricey amp, you beat the price comparison to a D-Star ID-1 setup.

Those are my thoughts. I'd like to hear more about it.

---
ham-80211 mailing list
ham-80211@...
https://lists.tapr.org/cgi-bin/mailman/listinfo/ham-80211

1011. Moving To Richardson Area

Yahoo group: DAWG-HSMM
Date: 2007-03-08 14:40:20 UTC
From: John Champa
Topic: 1011 Message: 1011

Greetings!

I am moving to the Richardson area to take on a new assignment.

What is a good repeater(s) to check out to meet-up with NTMS / HSMM folks?

Perhaps I should actually join the NTMS.... more than just the reflector.

73,
John
K8OCL

1012. Re: [ntms-hsmm] Moving To Richardson Area

Yahoo group: DAWG-HSMM
Date: 2007-03-08 15:27:36 UTC
From: John Galvin
Topic: 1011 Message: 1012

A good way to meet the folks in this area and find out about repeaters is to join in by helping with some of the public service events in the area. The Wildflower Ride incorporates HSMM as part of the amateur effort. There are also many good clubs in the area. Check out www.qsl.net/n5tim for public service events.

73 and welcome to the area,
John - N5TIM

At 08:40 3/8/2007, you wrote:

>Greetings!
>
>I am moving to the Richardson area to take on a new assignment.
>
>What is a good repeater(s) to check out to meet-up with NTMS / HSMM folks?
>
>Perhaps I should actually join the NTMS.... more than just the reflector.
>
>73,
>John
>K8OCL
>
>

- -
John Galvin - N5TIM
jrgalvin2@...
JUNK - Stuff we throw away. STUFF - junk we keep.

[Non-text portions of this message have been removed]

1013. Re: [ntms-hsmm] Moving To Richardson Area

Yahoo group: DAWG-HSMM
Date: 2007-03-08 15:55:15 UTC
From: Kilgore
Topic: 1011 Message: 1013

Wonderful!! Where will you be working?

There are many clubs in the area. Our HSMM folks are scattered out among several clubs. The NTMS club meetings are directed more toward microwave and weaksignal work. The HSMM folks are more active for specific events. The Wild Ride Bike Rally is one of them.

When you get to Dallas, let me know and we'll get some of the guys together for lunch.

If you are in Dallas this weekend, the Irving ARC is having a hamfest on Sat. Mar 10. http://www.irvingarc.org/

Doug Kilgore KD5OUG
1317 Glen Cove
Richardson, TX 75080
Ph 972-231-8539 Home
Ph 214-770-2394 Cell

John Champa wrote:

>Greetings!
>
>I am moving to the Richardson area to take on a new assignment.
>
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>Perhaps I should actually join the NTMS.... more than just the reflector.
>
>73,
>John
>K8OCL
>
>
>
>

1014. Re: [ntms-hsmm] Moving To Richardson Area

Yahoo group: DAWG-HSMM
Date: 2007-03-08 19:16:03 UTC
From: John Champa
Topic: 1011 Message: 1014

Yes, wonderful. wonderful, thank you. I am very excited, equally for the new work assignment and to meet some of the fine and fun HSMM operators in your area. I would love to meet as many of the guys for lunch as we can round up. I have questions for all of them! (HI)

In fact, I have an CQ VHF HSMM Column deadline March 23, so I will be looking for material, and taking pics and names too! We can record the gathering for posterity! (HI)

I will be working at Rockwell Collins and I should arrive in the area this Saturday looking for a bachelor pad to crash until my XYL can join me when school is out in June.

Rule One: Support your local Amateur Radio Club!
What one do your suggest for an HSMMer? Does Rockwell Collins have a Ham Radio Club?

Do you have a 2M repeater pair that you might suggest I monitor as I approach the area on Saturday? I will be coming down I30.

Thanks, and looking forward very much to meeting up with you and the other guys.

Vy 73,
John Champa, K8OCL

----Original Message Follows----
From: Kilgore <kilgore1317@...>
Reply-To: ntms-hsmm@yahoogroups.com
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Moving To Richardson Area
Date: Thu, 08 Mar 2007 09:55:15 -0600

Wonderful!! Where will you be working?

There are many clubs in the area. Our HSMM folks are scattered out among several clubs. The NTMS club meetings are directed more toward microwave and weaksignal work. The HSMM folks are more active for specific events. The Wild Ride Bike Rally is one of them.

When you get to Dallas, let me know and we'll get some of the guys together for lunch.

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Doug Kilgore KD5OUG
1317 Glen Cove
Richardson, TX 75080
Ph 972-231-8539 Home
Ph 214-770-2394 Cell

John Champa wrote:

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>
>Perhaps I should actually join the NTMS.... more than just the reflector.
>
>73,
>John
>K8OCL
>
>
>
>

1015. Re: [ntms-hsmm] Moving To Richardson Area

Yahoo group: DAWG-HSMM
Date: 2007-03-08 19:20:09 UTC
From: John Champa
Topic: 1011 Message: 1015

John,

Good idea! I will certainly do that. The Wildflower Ride
sounds like fun! I'm not taking much in the way of HSMM
gear with me at this time, but that is easy to change (HI).

Thanks for the URL. I will check it out.

Vy 73,
John
K8OCL

----Original Message Follows----
From: John Galvin <jrgalvin2@...>
Reply-To: ntms-hsmm@yahoogroups.com
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Moving To Richardson Area
Date: Thu, 08 Mar 2007 09:27:36 -0600

A good way to meet the folks in this area and find out about
repeaters is to join in by helping with some of the public service
events in the area. The Wildflower Ride incorporates HSMM as part of
the amateur effort. There are also many good clubs in the
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73 and welcome to the area,
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At 08:40 3/8/2007, you wrote:

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>
>73,
>John
>K8OCL
>
>

- -
John Galvin - N5TIM
jrgalvin2@...

JUNK - Stuff we throw away. STUFF - junk we keep.

[Non-text portions of this message have been removed]

1016. Re: [ntms-hsmm] Moving To Richardson Area

Yahoo group: DAWG-HSMM
Date: 2007-03-08 22:14:46 UTC
From: John Galvin
Topic: 1011 Message: 1016

At 13:16 3/8/2007, you wrote:

>Yes, wonderful. wonderful, thank you. I am very excited,
>equally for the new work assignment and to meet some
>of the fine and fun HSMM operators in your area. I would
>love to meet as many of the guys for lunch as we can round
>up. I have questions for all of them! (HI)
>
>In fact, I have an CQ VHF HSMM Column deadline March 23, so I
>will be looking for material, and taking pics and names too!
>We can record the gathering for posterity! (HI)
>
>I will be working at Rockwell Collins and I should arrive in
>the area this Saturday looking for a bachelor pad to crash
>until my XYL can join me when school is out in June.
>
>Rule One: Support your local Amateur Radio Club!
>What one do your suggest for an HSMMer? Does Rockwell
>Collins have a Ham Radio Club?

They do.

>Do you have a 2M repeater pair that you might suggest I monitor
>as I approach the area on Saturday? I will be coming down

NORTH TEXAS RACES/ARES NET FREQUENCIES
Freq. City / County
145.15 - Sachse RACES
145.21 - Carrollton Farmers Branch Coppell Addison
145.27 - Kaufman Co. RACES (alternate) (136.5 Hz)
145.31 - Mesquite RACES
145.39 - Wise Co. RACES
145.41 - Ellis Co. RACES
146.40 Sachse (simplex)
146.58 Dallas Co. RACES (simplex)
146.66 - Garland RACES
146.72 - Irving RACES (110.9 Hz)
146.74 - Collin Co. -North (ARES)
146.88 - Dallas City & Co. RACES (primary)
146.92 - Denton Co. RACES (110.9 Hz)
146.94 - Tarrant Co. RACES
146.96 - Dallas City & Co. RACES (secondary)
146.98 - Wise Co. RACES
147.12 + Richardson RACES
147.14 + Arlington (Tarrant Co.)
147.18 + Collin Co. -South (ARES)

147.24 + Garland RACES
147.28 + Kaufman Co. RACES Primary (136.5 Hz)
147.54 Garland RACES (Simplex)
147.58 Rowlett RACES Primary
147.555 Rockwall Co. ARES (Simplex)
441.525 Rockwall Co. ARES (141.3 Hz)
442.075 + Dallas Co. REACT (linked to 146.88 for SKYW ARN)

Most of the best.

>I30.
>
>Thanks, and looking forward very much to meeting up with you
>and the other guys.
>
>Vy 73,
>John Champa, K8OCL
>
>----Original Message Follows----
>From: Kilgore <<mailto:kilgore1317%40sbcglobal.net>kilgore1317@...>
>Reply-To: <mailto:ntms-hsmm%40yahoogroups.com>ntms-hsmm@yahoogroups.com
>To: <mailto:ntms-hsmm%40yahoogroups.com>ntms-hsmm@yahoogroups.com
>Subject: Re: [ntms-hsmm] Moving To Richardson Area
>Date: Thu, 08 Mar 2007 09:55:15 -0600
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>Wonderful!! Where will you be working?
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>
>If you are in Dallas this weekend, the Irving ARC is having a hamfest on
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>Doug Kilgore KD5OUG
>1317 Glen Cove
>Richardson, TX 75080
>Ph 972-231-8539 Home
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- -
John Galvin - N5TIM
jrgalvin2@...
JUNK - Stuff we throw away. STUFF - junk we keep.

[Non-text portions of this message have been removed]

1017. Re: Moving To Richardson Area

Yahoo group: DAWG-HSMM
Date: 2007-03-09 01:46:54 UTC
From: J. Beadles
Topic: 1011 Message: 1017

Wow! That's a hoot. You'll be working a few blocks from Doug and I. As you come in I-30, you'll be coming in through, in order:

Rockwall
Garland
Dallas
Richardson

John listed those freqs below. I'm president of the Plano club, which is on the north border of Richardson. Incidentally, our club meeting is on Monday the 19th at 7:30, so let me invite you to that. We own the 147.18+ pl107.2 Incidentally, I'm also Pres of the Nortel ARC for now, though accessing those meetings is more problematic.

I just posted a presentation on our web site of stores where you can get project materials in the N. Dallas area - it is in the "Quick QSTs" section of the home page, which is:
http://www.k5prk.org/index.php
(and if anybody else has any suggestions, please let me know and I'll update it.)

Other clubs you might be interested in: Our group is something of a subsidiary of the North Texas Microwave Society. The NTMS is a more technical microwave group, with a lot of construction, contesting and EME activity.
http://www.ntms.org/

D-Star activity is promoted by the Texas Interconnect Team, which is local. They are a mainstream group, with fairly substantial hooks into Icom's product development group. We expect to see a lot of D-Star repeaters going in the local area.
http://www.k5tit.org

In fact, we're moving the PARK repeater, and are installing a high speed D-Star system (and Winlink PMBO) to support Collin County ARES.

The regional Hamfest is Hamcom, which will be held in Plano on June 8 & 9. Seeing as how you are going to be here, and seeing as how I'm still programming director, and seeing as how I'm still looking for programs, expect me to hit you up. Incidentally, they are holding a National D-Star Users Group meeting here at Hamcom this year.

--- In ntms-hsmm@yahoogroups.com, John Galvin <jrgalvin2@...> wrote:
>
> At 13:16 3/8/2007, you wrote:
>
> >Yes, wonderful. wonderful, thank you. I am very excited,

> >equally for the new work assignment and to meet some
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> >In fact, I have an CQ VHF HSMM Column deadline March 23, so I
> >will be looking for material, and taking pics and names too!
> >We can record the gathering for posterity! (HI)
> >
> >I will be working at Rockwell Collins and I should arrive in
> >the area this Saturday looking for a bachelor pad to crash
> >until my XYL can join me when school is out in June.
> >
> >Rule One: Support your local Amateur Radio Club!
> >What one do your suggest for an HSMMer? Does Rockwell
> >Collins have a Ham Radio Club?
>
> They do.
>
>
> >Do you have a 2M repeater pair that you might suggest I monitor
> >as I approach the area on Saturday? I will be coming down
>
> NORTH TEXAS RACES/ARES NET FREQUENCIES
> Freq. City / County
> 145.15 - Sachse RACES
> 145.21 - Carrollton Farmers Branch Coppell Addison
> 145.27 - Kaufman Co. RACES (alternate) (136.5 Hz)
> 145.31 - Mesquite RACES
> 145.39 - Wise Co. RACES
> 145.41 - Ellis Co. RACES
> 146.40 Sachse (simplex)
> 146.58 Dallas Co. RACES (simplex)
> 146.66 - Garland RACES
> 146.72 - Irving RACES (110.9 Hz)
> 146.74 - Collin Co. -North (ARES)
> 146.88 - Dallas City & Co. RACES (primary)
> 146.92 - Denton Co. RACES (110.9 Hz)
> 146.94 - Tarrant Co. RACES
> 146.96 - Dallas City & Co. RACES (secondary)
> 146.98 - Wise Co. RACES
> 147.12 + Richardson RACES
> 147.14 + Arlington (Tarrant Co.)
> 147.18 + Collin Co. -South (ARES)
> 147.24 + Garland RACES
> 147.28 + Kaufman Co. RACES Primary (136.5 Hz)
> 147.54 Garland RACES (Simplex)
> 147.58 Rowlett RACES Primary
> 147.555 Rockwall Co. ARES (Simplex)
> 441.525 Rockwall Co. ARES (141.3 Hz)

> 442.075 + Dallas Co. REACT (linked to 146.88 for SKYW ARN)
>
> Most of the best.
>
> >I30.
> >
> >Thanks, and looking forward very much to meeting up with you
> >and the other guys.
> >
> >Vy 73,
> >John Champa, K8OCL
> >
> >----Original Message Follows----
> >From: Kilgore <<mailto:kilgore1317%40sbcglobal.net>kilgore1317@...>
> >Reply-To: <mailto:ntms-hsmm%40yahoogroups.com>ntms-
hsmm@yahoogroups.com
> >To: <mailto:ntms-hsmm%40yahoogroups.com>ntms-hsmm@yahoogroups.com
> >Subject: Re: [ntms-hsmm] Moving To Richardson Area
> >Date: Thu, 08 Mar 2007 09:55:15 -0600
> >
> >Wonderful!! Where will you be working?
> >
> >There are many clubs in the area. Our HSMM folks are scattered out
> >among several clubs. The NTMS club meetings are directed more
toward
> >microwave and weaksignal work. The HSMM folks are more active for
> >specific events. The Wild Ride Bike Rally is one of them.
> >
> >When you get to Dallas, let me know and we'll get some of the guys
> >together for lunch.
> >
> >If you are in Dallas this weekend, the Irving ARC is having a
hamfest on
> >Sat. Mar 10. <http://www.irvingarc.org/>http://www.irvingarc.org/
> >
> >Doug Kilgore KD5OUG
> >1317 Glen Cove
> >Richardson, TX 75080
> >Ph 972-231-8539 Home
> >Ph 214-770-2394 Cell
> >
> >John Champa wrote:
> >
> > >Greetings!
> > >
> > >I am moving to the Richardson area to take on a new assignment.
> > >
> > >What is a good repeater(s) to check out to meet-up with NTMS /
HSMM folks?
> > >

> > >Perhaps I should actually join the NTMS.... more than just the
reflector.
> > >
> > >73,
> > >John
> > >K8OCL
> > >
> > >
> > >
> > >
> >
> >
>
> -
-
> John Galvin - N5TIM
> jrgalvin2@...
> JUNK - Stuff we throw away. STUFF - junk we keep.
>
> [Non-text portions of this message have been removed]
>

1018. RE: [ntms-hsmm] Re: Moving To Richardson Area

Yahoo group: DAWG-HSMM
Date: 2007-03-09 01:53:37 UTC
From: John Champa
Topic: 1011 Message: 1018

John,

That IS a hoot! Fantastic. It's a small and wonderful world.

Wow! And what a great buch of activity. Choices, choices! (HI)

Looking forward to talking with you this weekend!

Thanks for all the help!

Vy 73,
John
K8OCL

----Original Message Follows----
From: "J. Beadles" <jbeadles@...>
Reply-To: ntms-hsmm@yahoogroups.com
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Moving To Richardson Area
Date: Fri, 09 Mar 2007 01:46:54 -0000

Wow! That's a hoot. You'll be working a few blocks from Doug and
I. As you come in I-30, you'll be coming in through, in order:

Rockwall
Garland
Dallas
Richardson

John listed those freqs below. I'm president of the Plano club,
which is on the north border of Richardson. Incidentally, our club
meeting is on Monday the 19th at 7:30, so let me invite you to that.
We own the 147.18+ pl107.2 Incidentally, I'm also Pres of the Nortel
ARC for now, though accessing those meetings is more problematic.

I just posted a presentation on our web site of stores where you can
get project materials in the N. Dallas area - it is in the "Quick
QSTs" section of the home page, which is:
http://www.k5prk.org/index.php
(and if anybody else has any suggestions, please let me know and I'll
update it.)

Other clubs you might be interested in: Our group is something of a
subsidiary of the North Texas Microwave Society. The NTMS is a more
technical microwave group, with a lot of construction, contesting and
EME activity.
http://www.ntms.org/

D-Star activity is promoted by the Texas Interconnect Team, which is local. They are a mainstream group, with fairly substantial hooks into Icom's product development group. We expect to see a lot of D-Star repeaters going in the local area.
http://www.k5tit.org

In fact, we're moving the PARK repeater, and are installing a high speed D-Star system (and Winlink PMBO) to support Collin County ARES.

The regional Hamfest is Hamcom, which will be held in Plano on June 8 & 9. Seeing as how you are going to be here, and seeing as how I'm still programming director, and seeing as how I'm still looking for programs, expect me to hit you up. Incidentally, they are holding a National D-Star Users Group meeting here at Hamcom this year.

--- In ntms-hsmm@yahoogroups.com, John Galvin <jrgalvin2@...> wrote:
>
> At 13:16 3/8/2007, you wrote:
>
> >Yes, wonderful. wonderful, thank you. I am very excited,
> >equally for the new work assignment and to meet some
> >of the fine and fun HSMM operators in your area. I would
> >love to meet as many of the guys for lunch as we can round
> >up. I have questions for all of them! (HI)
> >
> >In fact, I have an CQ VHF HSMM Column deadline March 23, so I
> >will be looking for material, and taking pics and names too!
> >We can record the gathering for posterity! (HI)
> >
> >I will be working at Rockwell Collins and I should arrive in
> >the area this Saturday looking for a bachelor pad to crash
> >until my XYL can join me when school is out in June.
> >
> >Rule One: Support your local Amateur Radio Club!
> >What one do your suggest for an HSMMer? Does Rockwell
> >Collins have a Ham Radio Club?
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> They do.
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>
> >Do you have a 2M repeater pair that you might suggest I monitor
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> NORTH TEXAS RACES/ARES NET FREQUENCIES
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> 146.98 - Wise Co. RACES
> 147.12 + Richardson RACES
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> 147.24 + Garland RACES
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> 441.525 Rockwall Co. ARES (141.3 Hz)
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>
> Most of the best.
>
> >I30.
> >
> >Thanks, and looking forward very much to meeting up with you
> >and the other guys.
> >
> >Vy 73,
> >John Champa, K8OCL
> >
> >----Original Message Follows----
> >From: Kilgore <<mailto:kilgore1317%40sbcglobal.net>kilgore1317@...>
> >Reply-To: <mailto:ntms-hsmm%40yahoogroups.com>ntms-
hsmm@yahoogroups.com
> >To: <mailto:ntms-hsmm%40yahoogroups.com>ntms-hsmm@yahoogroups.com
> >Subject: Re: [ntms-hsmm] Moving To Richardson Area
> >Date: Thu, 08 Mar 2007 09:55:15 -0600
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> >Wonderful!! Where will you be working?
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> >There are many clubs in the area. Our HSMM folks are scattered out
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> >microwave and weaksignal work. The HSMM folks are more active for
> >specific events. The Wild Ride Bike Rally is one of them.
> >
> >When you get to Dallas, let me know and we'll get some of the guys
> >together for lunch.
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> >If you are in Dallas this weekend, the Irving ARC is having a

hamfest on
> >Sat. Mar 10. <http://www.irvingarc.org/>http://www.irvingarc.org/
> >
> >Doug Kilgore KD5OUG
> >1317 Glen Cove
> >Richardson, TX 75080
> >Ph 972-231-8539 Home
> >Ph 214-770-2394 Cell
> >
> >John Champa wrote:
> >
> > >Greetings!
> > >
> > >I am moving to the Richardson area to take on a new assignment.
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> > >What is a good repeater(s) to check out to meet-up with NTMS /
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reflector.
> > >
> > >73,
> > >John
> > >K8OCL
> > >
> > >
> > >
> > >
> >
> >
>
> -
-
> John Galvin - N5TIM
> jrgalvin2@...
> JUNK - Stuff we throw away. STUFF - junk we keep.
>
> [Non-text portions of this message have been removed]
>

1019. Re: [ntms-hsmm] Re: Moving To Richardson Area

Yahoo group: DAWG-HSMM
Date: 2007-03-09 02:44:10 UTC
From: Kilgore
Topic: 1011 Message: 1019

The Richardson Wireless Klub meets next Monday night, Mar 12 at 7:00pm
at St. Barnabas Presbyterian Church, 1220 West Beltline Rd, Richardson,
TX 75080. http://www.k5rwk.org/

The program is Software Defined Radio.

It's within 10 minutes drive time from Rockwell Collins.

Please join us.

Doug Kilgore KD5OUG
Ph 214-770-2394 Cell

John Champa wrote:

>John,
>
>That IS a hoot! Fantastic. It's a small and wonderful world.
>
>Wow! And what a great buch of activity. Choices, choices! (HI)
>
>Looking forward to talking with you this weekend!
>
>Thanks for all the help!
>
>Vy 73,
>John
>K8OCL
>
>
>

1020. Fwd: [tapr-announce] Join Us at the First TAPR/AMSAT Joint Hamvention Banquet

Yahoo group: DAWG-HSMM
Date: 2007-03-11 00:41:31 UTC
From: Mark Thompson
Topic: 1020 Message: 1020

Joint TAPR/AMSAT Banquet at Dayton 2007

For many years, AMSAT and TAPR have held "competing" Hamvention dinners on Friday evening. Given the tremendous overlap in membership and interest between the two groups, this has always required tough choices. We're pleased to announce that this year, AMSAT and TAPR will be holding a joint dinner, and it will be at a great venue -- the Air Force Museum.

Here are the details:

"Dinner Under the Wings" will be held Friday evening May 18,2007 at the Air Force Museum in Dayton, OH in conjunction with the 2007 Dayton Hamvention. The doors open at 18:00 with a cash bar and appetizers in the Air Power Gallery (World War II). The buffet dinner will be served at 19:00 in the Cold War area. Following a few announcements and a short presentation you will be free to roam the museum.

Price for the dinner is $35.00 per person and includes appetizers, salad, meal, dessert, coffee, iced tea, tax and gratuity.

See http://afmuseum.com/ or http://www.nationalmuseum.af.mil/ for information about the museum.

The museum will close at 22:00 and everyone must be out of the museum by then.

Reservations are required and can be purchased from TAPR -- go to http://www.tapr.org/dayton.html for more details. There will be no ticket sales at the TAPR booth this year, and sales will close on Monday night, May 14, 2007 to allow us to give the museum a count on Tuesday.

There may also be a special showing of the IMAX movie "Space Station" at 5:00 PM prior to the banquet. See below for details.

Banquet Menu
Roll and Butter
Salad with choice of Ranch, French or Italian Dressing

Top Round of Beef w/carver
Classic Sautéed Chicken Breast in a Sun Dried Tomato Cream Sauce
Grilled Salmon Blackened with Jack Daniel's BBQ Sauce

Roasted Red Skin Potatoes
Rice Pilaf w/ Pine Nuts and Thyme

Prince Edward Blend w/ Yellow Wax Beans, Green Beans and Baby Carrots
Sugar Snap Peas w/ Red and Yellow Peppers

Chocolate Chocolate Espresso Torte w/ berries and Melba Sauce

NOTE: A vegetarian meal choice is available; if you would like this, please let us know when you order your tickets.

At 5:00 PM on Friday afternoon there will be a special showing of the IMAX movie "Space Station". This movie is approximately 47 minutes long and contains about 4 minutes of amateur radio contacts between school children and the International Space Station. The IMAX theater is located in the museum building off the main lobby area. Attendees at the movie will be able to go to the banquet at 6:00 PM when the doors open about 10 minutes after the movie is over. The lobby contains restrooms, telephones and some seating.

At least 50 people must sign up for the movie in advance. Reservations are required -- to place yours, call the museum IMAX theater on (937)-253-IMAX. Adults are $6.00, seniors are $5.50, and students 8 through college 22 (student ID required) are $4.50.

_____
tapr-announce mailing list

NOTE: This list includes all addresses currently subscribed to any TAPR mailing list. Please don't try to manually unsubscribe from this list; it won't work. If you unsubscribe from all other TAPR mailing lists, you will automatically be unsubscribed from this one.

_____
The fish are biting.
Get more visitors on your site using Yahoo! Search Marketing.
http://searchmarketing.yahoo.com/arp/sponsoredsearch_v2.php

[Non-text portions of this message have been removed]

1021. 2007 ARRL/TAPR Digital Communications Conference issues call for papers

Yahoo group: DAWG-HSMM
Date: 2007-03-11 00:42:54 UTC
From: Mark Thompson
Topic: 1021 Message: 1021

* 2007 ARRL/TAPR Digital Communications Conference issues call for papers:

Technical papers are solicited for presentation at the 26th annual ARRL/TAPR Digital Communications Conference (DCC), Friday-Sunday, September 28-30, in Hartford, Connecticut. Papers will also be published in the Conference Proceedings. Authors do not need to attend the conference to have their papers included in the Proceedings. The submission deadline is July 31. The ARRL/TAPR Digital Communications Conference is an international forum for technically minded radio amateurs to meet and present new ideas and techniques. Paper/presentation topic areas include -- but are not limited to -- software defined radio (SDR), digital voice, digital satellite communication, digital signal processing (DSP), HF digital modes, adapting IEEE 802.11 systems for Amateur Radio, Global Positioning System (GPS), Automatic Position Reporting System (APRS), Linux in Amateur Radio, AX.25 updates and Internet operability with Amateur Radio networks.

Submit papers to Maty Weinberg, KB1EIB, ARRL, 225 Main St, Newington, CT 06111 or viae-mail <maty@...>. Papers will be published exactly as submitted, and authors will retain all rights. ARRL will provide additional information on the 2007 DCC as it becomes available.

It's here! Your new message!
Get new email alerts with the free Yahoo! Toolbar.
http://tools.search.yahoo.com/toolbar/features/mail/

1022. Request for Hamcom Presentations

Yahoo group: DAWG-HSMM
Date: 2007-03-22 15:13:40 UTC
From: J. Beadles
Topic: 1022 Message: 1022

It's that time of year! I'm putting the presentation list for this year's Hamcom. This will be the second year for Hamcom at the new Plano Centre in Plano TX on June 8 and 9. This year all parking will be on-site, which should relieve our one frustration from last year.

I'm looking for HSMM presentations, both from those of you who have presented before, and those of you who haven't but would like to. The list pf programs that I have as of March 28 will be put up on the Hamcom web site for advertising, so if you want to present, giving me your information before then would be beneficial.

Persons interested in presenting should fill out the form on the Hamcom web site. This form gives me all the information I need to schedule your presentation. The form is located at:

http://www.hamcom.org/cgi-bin/ccp51/cp-app.cgi?&pg=presenters

1023. New Google Tisp Faster than DSL

Yahoo group: DAWG-HSMM
Date: 2007-04-01 18:32:23 UTC
From: Kilgore
Topic: 1023 Message: 1023

For your info....

http://www.google.com/tisp/install.html

1024. Re: New Google Tisp Faster than DSL

Yahoo group: DAWG-HSMM
Date: 2007-04-02 19:57:43 UTC
From: Jerry Karlovich, KD5OM
Topic: 1023 Message: 1024

Will you prepare a HamCom presentation on this subject?

--- In ntms-hsmm@yahoogroups.com, Kilgore <kilgore1317@...> wrote:
>
> For your info....
>
> http://www.google.com/tisp/install.html
>

1025. Re: [ntms-hsmm] Re: New Google Tisp Faster than DSL

Yahoo group: DAWG-HSMM
Date: 2007-04-02 23:00:19 UTC
From: Walt DuBose
Topic: 1023 Message: 1025

Jerry Karlovich, KD5OM wrote:
>
>
> Will you prepare a HamCom presentation on this subject?
>
> --- In ntms-hsmm@yahoogrou ps.com <mailto:ntms-hsmm%40yahoogroups.com>,
> Kilgore <kilgore1317@ ...> wrote:
> >
> > For your info....
> >
> > http://www.google. com/tisp/ install.html
> <http://www.google.com/tisp/install.html>
> >
>

I don't think its all that great a service...maybe we should just flush this one out of the queue.

Walt/K5YFW

1026. Re: [ntms-hsmm] Re: New Google Tisp Faster than DSL

Yahoo group: DAWG-HSMM
Date: 2007-04-02 22:09:21 UTC
From: Fr. Johnny KD5LWU
Topic: 1023 Message: 1026

The last I heard John Crapper was contesting it's use in a higher court but had to "flush" some extraneous stuff out of it first so that the judge's could see it clearly for what it really is! (????) Now moving on hope all are have a good day 73 Johnny

Walt DuBose wrote:
>
> Jerry Karlovich, KD5OM wrote:
> >
> >
> > Will you prepare a HamCom presentation on this subject?
> >
> > --- In ntms-hsmm@yahoogrou ps.com <mailto:ntms-hsmm%40yahoogroups.com>,
> > Kilgore <kilgore1317@ ...> wrote:
> > >
> > > For your info....
> > >
> > > http://www.google. com/tisp/ install.html
> > <http://www.google.com/tisp/install.html
> <http://www.google.com/tisp/install.html>>
> > >
> >
>
> I don't think its all that great a service...maybe we should just
> flush this one
> out of the queue.
>
> Walt/K5YFW
>
>

[Non-text portions of this message have been removed]

1027. Re: [ntms-hsmm] Re: New Google Tisp Faster than DSL

Yahoo group: DAWG-HSMM
Date: 2007-04-02 23:07:29 UTC
From: Rusty Haddock
Topic: 1023 Message: 1027

```
Won't work for me -- I have a septic tank. :-(
Still, it looked like a product that could bring about a strong
low-cost networking 'movement'. I wouldn't want to experience a
log of 'packet collisions' on that network. :-O

-Rusty-
--
_____ Rusty Haddock = AE5AE = rusty@...
|\/ o \ o **Out yonder in the Van Alstyne (TX) Metropolitan Area**
| ( -< O o Every day I think people can't get more stupid.
|/\__V__/ Every day I'm proven horribly wrong.
```

1028. Microwave Frequency Sources.

Yahoo group: DAWG-HSMM
Date: 2007-05-01 00:31:31 UTC
From: Phil Williams
Topic: 1028 Message: 1028

I can across a couple of microwave freqency sources that I would like to find some technical data on. The devices have a tunable cavity, operate with a -20VDC source, one SMA female connection labled RF out. The company is Frequency Sources, Chelmsford, MA. Searching the Internet did not big up any information about this outfit.

Label on device:

FS-2155-15 26629
P/N: 037-002478-002

Any help would be appreciated.

PhilW de KA1GMN

1029. 07 Wild Ride HSMM Activity

Yahoo group: DAWG-HSMM
Date: 2007-05-07 20:41:31 UTC
From: J. Beadles
Topic: 989 Message: 1029

All,

Looks like we're going to support the Richardson Wild Ride (Saturday, May 19) with HSMM again. Goal is to transport photos to a central web server, with public display of the images at the start/stop.

Anybody interested in getting practical experience with D-Star, WiFi and Winlink should send email to me directly at beadles at nortel.com no later than midnight this Thursday. I'll set up a training opportunity sometime this weekend for those responding.

1030. Re: [ntms-hsmm] 07 Wild Ride HSMM Activity

Yahoo group: DAWG-HSMM
Date: 2007-05-08 05:29:04 UTC
From: kevin asato
Topic: 989 Message: 1030

Best of Luck and Have Fun.

I was trying to see if I could schedule a job at my
main office in Plano (Alcatel, oops, Alcatel-Lucent)
around that time but the schedules did not line up to
make it happen.

I work out in the field (Los Angeles based) and have
opportunity at times to bid on staging projects at the
plant. I just recently turned in work proposals for a
couple of projects for my group, one going on _this_
week.

kevin
kc6pob
--- "J. Beadles" <jbeadles@...> wrote:

> All,
>
> Looks like we're going to support the Richardson
> Wild Ride (Saturday,
> May 19) with HSMM again. Goal is to transport
> photos to a central web
> server, with public display of the images at the
> start/stop.
>
> Anybody interested in getting practical experience
> with D-Star, WiFi
> and Winlink should send email to me directly at
> beadles at nortel.com
> no later than midnight this Thursday. I'll set up a
> training
> opportunity sometime this weekend for those
> responding.
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

1031. Re:07 Wild Ride HSMM Activity

Yahoo group: DAWG-HSMM
Date: 2007-05-08 14:48:20 UTC
From: rddunnin@rockwellcollins.com
Topic: 989 Message: 1031

The KC5QHH HSMM equipment in wonderful waterproof boxes is available if you need it.

RD

[Non-text portions of this message have been removed]

1032. HSMM vendor

Yahoo group: DAWG-HSMM
Date: 2007-05-17 16:11:35 UTC
From: J. Beadles
Topic: 1032 Message: 1032

Just an FYI, Pasadena Networks, LLC is carrying reasonably priced "N" vehicle mag-mounts and cabling.

http://www.wlanparts.com/category/antennas_mobile/

1033. Re: [ntms-hsmm] HSMM vendor

Yahoo group: DAWG-HSMM
Date: 2007-05-17 20:24:57 UTC
From: John Galvin
Topic: 1032 Message: 1033

And this; http://www.wlanparts.com/product/MB-100

At 11:11 5/17/2007, you wrote:

>Just an FYI, Pasadena Networks, LLC is carrying reasonably priced "N"
>vehicle mag-mounts and cabling.
>
><http://www.wlanparts.com/category/antennas_mobile/>http://www.wlanparts.com/category/antennas_mobile/
>
>

- -
John Galvin - N5TIM
jrgalvin2@...
JUNK - Stuff we throw away ... STUFF - junk we keep.

[Non-text portions of this message have been removed]

1034. 07 Wild Ride pics

Yahoo group: DAWG-HSMM
Date: 2007-05-20 04:21:51 UTC
From: J. Beadles
Topic: 1034 Message: 1034

Pics from the 2007 Wild Ride, including the HSMM eqpt, are up at:

http://www.k5rwk.org/wr/

1035. RE: [ntms-hsmm] 07 Wild Ride pics

Yahoo group: DAWG-HSMM
Date: 2007-05-20 21:25:58 UTC
From: John Champa
Topic: 1034 Message: 1035

John,

These are fantastic, fun shots! How about quickly picking out 1 (or several)
you think might make great cover shots, writing a good caption complete with personnel IDs, and I will see if Joe will put it on the cover of CQ VHF.
It's worth a try...

73,
John
K8OCL/5

----Original Message Follows----
From: "J. Beadles" <jbeadles@...>
Reply-To: ntms-hsmm@yahoogroups.com
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] 07 Wild Ride pics
Date: Sun, 20 May 2007 04:21:51 -0000

Pics from the 2007 Wild Ride, including the HSMM eqpt, are up at:

http://www.k5rwk.org/wr/

1036. Little help starting out Hsmm

Yahoo group: DAWG-HSMM
Date: 2007-06-16 05:50:01 UTC
From: Joe
Topic: 1036 Message: 1036

Hi,

New here and have been reading alot. Need some simple help to get going. Also what is the best program to use on my lap top to do video and voice with and how to set that up.

Thanks
Joe KB4LSL

1037. Re: [ntms-hsmm] Little help starting out Hsmm

Yahoo group: DAWG-HSMM
Date: 2007-06-17 04:30:14 UTC
From: kevin asato
Topic: 1036 Message: 1037

Not the best but how about using Netmeeting (sp?) with
a headset and a usb webcam? Try it out PC to PC (with
or without a switch) to make sure it works and to get
a feel of how it works. Then extend the connectivity
with wireless access points and basic antennas within
the same room. Once you have confidence in what you
have set up, go for distance.

Some things to note or my opinions:
Impairments in the transmission path will affect your
data throughput which is why you want to get a feel
for pristine conditions on your testbench.

It helps to have a relatively new PC running at a
clock rate > 500MHz and at least 256M of RAM. and a
10/100 or even a 1G ethernet interface. The more the
merrier as it keeps the data throughput rates high and
continuous.

Use at least Windows XP. Windows 98 performance sucks
for anything close to real time performance.

There are better solutions than Netmeeting but this
keeps your initial costs low* and allows you to play
right away. There are also unix/linux solutions that
are similar; just that I cannot name any.

73,

kevin
kc6pob

*Netmeeting comes with Windows; most everyone has a
multimedia type headset that connects to the audio
jacks or via USB; and a cheap webcam.

--- Joe <joe_r4@...> wrote:

> Hi,
>
> New here and have been reading alot. Need some
> simple help to get
> going. Also what is the best program to use on my
> lap top to do video
> and voice with and how to set that up.
>
> Thanks

> Joe KB4LSL
>
>

Take the Internet to Go: Yahoo!Go puts the Internet in your pocket: mail, news, photos & more.
http://mobile.yahoo.com/go?refer=1GNXIC

1038. How to set up a link?

Yahoo group: DAWG-HSMM
Date: 2007-07-03 01:48:28 UTC
From: Bill
Topic: 1038 Message: 1038

Ran across another ham tonight that wants to experiment with HSMM. We want to set up about a 40 mile link with a "repeater" in the middle on Iron mountain. My question is what would be a good, cheap solution to put on the mountain? Would we need 2 antennas, 1 pointing east and 1 pointing west, or could we get by with 1 omni antenna?
Iron Mnt is just about half way between end points.

Thanks
Bill WA0YPL DM37dt

1039. New to Group

Yahoo group: DAWG-HSMM
Date: 2007-07-27 19:27:01 UTC
From: Mark Miller
Topic: 1039 Message: 1039

HI, I am Mark N5RFX and I live in Arlington and was wondering if there were any network diagrams that are available for Ham high speed networks? Is the WRT54GL the recommended router?

73,
Mark N5RFX

1040. Re: [ntms-hsmm] New to Group

Yahoo group: DAWG-HSMM
Date: 2007-07-27 23:59:45 UTC
From: Kipton Moravec
Topic: 1039 Message: 1040

John Beadles web page is a good start.
http://www.n5oom.org/hsmm/index.htm

John is using the older model WRT54G which is equivalent to the WRT54GL. After Version 4 they lowered the amount of memory in the device. I think they are on version 7 or 8 now. He added Sveasoft “Alchemy” firmware to add WDS Bridging allowing a router bridge between two other routers.

I took another approach, and bought the Buffalo WHR-HP-G54 which in theory has more range and uses less power. I used the DD-WRT software to add the additional functions. We hooked them all up at field day.

John has a pretty cool system. He has the router in a weather proof box and the antenna mounted on a 10 foot antenna mast attached to a tripod. It makes a pretty fast setup since he can tie the whole thing to the roof of his SUV assembled.

Since I was new at this I was not so fortunate or quick to setup my leg of the system. First problem was the Buffalo routers ran on 3.3V not 12V like the Linksys. So instead of running off batteries, I ran off a UPS. A level or power conversion waste. I can purchase a switching power supply for about $22 which kills the advantage of the Buffalo over the Linksys for our applications.

DD-WRT is not compatible with Sveasoft “Alchemy” when trying to bridge.

So for the first link at Field Day we used John's setup, and the second part of the link we used my setup. We had to tie the two parts together with wire. (The setup had to be a dogleg because of line of sight requirements.)

Our next setup will be the Plano Balloon Festival.

I think the Linksys WRT54GL would be the next router I purchase, but I think I would stay with DD-WRT. The other thing for you is to get a directional antenna. The higher gain for directionality the better. 15 - 24db antennas are between $29 and $69, to get a 30 db is a big jump, over $200 if I remember right. The antennas on the Internet are much cheaper and have more gain than what you can get locally at Fry's or Microcenter.

We also tend to use horizontal polarity for our links so interference from home users is reduced.

Kip

On Fri, 2007-07-27 at 14:27 -0500, Mark Miller wrote:
> HI, I am Mark N5RFX and I live in Arlington and was wondering if

> there were any network diagrams that are available for Ham high speed
> networks? Is the WRT54GL the recommended router?
>
> 73,
> Mark N5RFX
>

--
Kipton Moravec KE5NGX
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1041. Re: [ntms-hsmm] New to Group

Yahoo group: DAWG-HSMM
Date: 2007-07-28 05:55:55 UTC
From: Kilgore
Topic: 1039 Message: 1041

I am using a WRT54GL with DD-WRT installed. When I went to Ebay to determine the current pricing of the WRT54GL, I came accross a unit with DD-WRT installed AND with a 1 GByte SD memory card installed along with software for a Web server and FTP. I'm sure you can find instructions on the internet on how to do this yourself but this company performs the mod and checks it out. It's Linux so not for the faint of heart.

http://www.tekunixcorp.com/repeater-wrt54gl.htm
http://www.tekunixcorp.com/support.htm

The capabilties of this modified unit would be of great benefit in an EMCOMM situation.

Doug Kilgore KD5OUG

Mark Miller wrote:

>HI, I am Mark N5RFX and I live in Arlington and was wondering if
>there were any network diagrams that are available for Ham high speed
>networks? Is the WRT54GL the recommended router?
>
>73,
>Mark N5RFX
>
>
>
>
>

1042. Re: [ntms-hsmm] New to Group

Yahoo group: DAWG-HSMM
Date: 2007-07-28 10:03:53 UTC
From: Mark Miller
Topic: 1039 Message: 1042

At 06:59 PM 7/27/2007, you wrote:
>Our next setup will be the Plano Balloon Festival.

What do you guys do at the balloon festival?

Mark

1043. Re: [ntms-hsmm] New to Group

Yahoo group: DAWG-HSMM
Date: 2007-07-28 13:19:26 UTC
From: Kipton Moravec
Topic: 1039 Message: 1043

In this context we will be getting Internet access to the field where
they launch the balloons so they can have up to the minute weather radar
and wind information prior to launch.

Amateur Radio is also used for chasing the balloons.

On Sat, 2007-07-28 at 05:03 -0500, Mark Miller wrote:
> At 06:59 PM 7/27/2007, you wrote:
> >Our next setup will be the Plano Balloon Festival.
>
> What do you guys do at the balloon festival?
>
> Mark
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
--
Kipton Moravec KE5NGX
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1044. Re: [ntms-hsmm] New to Group

Yahoo group: DAWG-HSMM
Date: 2007-07-28 13:31:21 UTC
From: Mark Miller
Topic: 1039 Message: 1044

Do you guys need any help? I would like to see your setup.

Mark

At 08:19 AM 7/28/2007, you wrote:

>In this context we will be getting Internet access to the field where
>they launch the balloons so they can have up to the minute weather radar
>and wind information prior to launch.
>
>Amateur Radio is also used for chasing the balloons.
>
>On Sat, 2007-07-28 at 05:03 -0500, Mark Miller wrote:
> > At 06:59 PM 7/27/2007, you wrote:
> > >Our next setup will be the Plano Balloon Festival.
> >
> > What do you guys do at the balloon festival?
> >
> > Mark

1045. Re: [ntms-hsmm] New to Group

Yahoo group: DAWG-HSMM
Date: 2007-07-28 13:53:32 UTC
From: Kipton Moravec
Topic: 1039 Message: 1045

Sure contact John Beatles. <jbeadles @ pobox.com> (Remove spaces.) He just started a ntx_pse_pbf yahoo group for organizing the event. So far no messages but the email group is started.

Kip

On Sat, 2007-07-28 at 08:31 -0500, Mark Miller wrote:
> Do you guys need any help? I would like to see your setup.
>
> Mark
>
> At 08:19 AM 7/28/2007, you wrote:
>
> >In this context we will be getting Internet access to the field where
> >they launch the balloons so they can have up to the minute weather radar
> >and wind information prior to launch.
> >
> >Amateur Radio is also used for chasing the balloons.
> >
> >On Sat, 2007-07-28 at 05:03 -0500, Mark Miller wrote:
> > > At 06:59 PM 7/27/2007, you wrote:
> > > >Our next setup will be the Plano Balloon Festival.
> > >
> > > What do you guys do at the balloon festival?
> > >
> > > Mark
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>
> Yahoo! Groups Links
>
>
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>
--
Kipton Moravec KE5NGX
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1046. Re: [ntms-hsmm] New to Group

Yahoo group: DAWG-HSMM
Date: 2007-07-28 14:13:35 UTC
From: Kris Kirby
Topic: 1039 Message: 1046

On Sat, 28 Jul 2007, Kilgore wrote:
> The capabilties of this modified unit would be of great benefit in an
> EMCOMM situation.

Right, because 2.4GHz will be completely free and clear of all traffic
except for all the ad-hoc networks deployed by the EOC, EMS, FD, PD,
etc...

--
Kris Kirby, KE4AHR <kris@...>
* WAR IS PEACE * FREEDOM IS SLAVERY *
* IGNORANCE IS STRENGTH * KETCHUP IS *
* A VEGETABLE *

1047. Digital cameras at Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2007-08-17 18:32:23 UTC
From: J. Beadles
Topic: 1047 Message: 1047

It's time for Plano Balloon Festival again, and that brings me back around to the subject of digital video and images. For the past several years, we've experimented with putting networked cameras out at the park so that hidden parts of the park can be seen by the field and recovery ops folks (us hams).

The goal is to have low cost hardware that can run off batteries and not need dedicated PCs (unless they are low cost and battery driven). The units need to be stand alone and as maintenance free as possible for 3 days (the duration of the festival). It should be capable of low-light operation, and have the ability to swap out lenses (C/CS mount preferable). Most of all, it needs to be cheap enough so that several can be set out.

It has proven remarkably difficult to do this, for the following reasons:

1. Typical webcams as might be found on a PC provide pretty low quality images (and require a computer). The lenses on them are intended generally for people sitting in front of the computer, not to cover an area the size of several football fields, and they generally have poor low light capability.

2. There are a number of network cameras on the market. My experimentation with the lower cost d-link cameras was very disappointing. Generally, they could not transmit frame grabs (video only) and died in a short period of time. There are more, maybe they got better, but are intended for short distance indoor use, and don't have lens mounts for outdoor use. There are a number of IP video cameras for outdoor use, but virtually all are out of my price range (>$400);

3. Frame grabbing has gone out of style. There used to be frame grabbers that would take pretty good pics (such as the old Snappy device). Now the market has gone to live video capture, with framegrabbing as an afterthought. I did some expensive experimentation with some of the USB video capture devices. They did provide 320x240 frame grabs, useless for my purposes. In any case, this still requires a camera, so isn't very useful.

There are ways to use a camcorder attached to a laptop to grab really high quality frames. However, we're back to having a dedicated computer in the field, not what I want.

When I experimented with this last, there was a a standalone ethernet video device on eBay, about the size of two boxes of playing cards. This $99 box would take up to 4 cameras and dump live

video out the port, and would also take frame grabs. Unfortunately, the firmware was very unstable, and it would lock up if you blinked at it wrong.

4. Another issue is what to do with images or video once you have them? At the Plano Balloon Festival, the launch field is virtually always in a NATted subnet. Images can be made available off the field by FTPing them to an off-site web server. Video is harder, however. There are streaming video servers that we could use, but I don't know how to use them yet. Cameras or other devices that serve video directly can't be accessed off-site unless special provisions are made to open the network to that server. Given the nature of our internet feeds, that generally won't happen.

So, what next? Well, right now I have a good quality low-light security camera. Recently I've run across the "Hava Gold" (http://www.myhava.com/products.html) product at Frys for about $129. It is a commercial entertainment product - you plug the video and audio out of your TV into it, and it serves it across the internet to an unlimited number of clients. It still suffers from the NAT issue above, but should work well across the launch field. The specs say it comes with a 9v 1amp power supply, so it should work ok from battery power.

1048. Re: New to Group

Yahoo group: DAWG-HSMM
Date: 2007-08-17 18:38:03 UTC
From: J. Beadles
Topic: 1039 Message: 1048

--- In ntms-hsmm@yahoogroups.com, Mark Miller <kramrellim@...> wrote:
>
> At 06:59 PM 7/27/2007, you wrote:
> >Our next setup will be the Plano Balloon Festival.
>
> What do you guys do at the balloon festival?
>
> Mark
>

Sorry Mark, just saw your msg. We perform a safety backup function for the balloon flights during the 3 day event. We have two operations, one at the launch field, and a recovery operation out in the local area. The field ops group tracks the balloon vehicles on and off the launch field, and records the numbers of the balloons that fly. This information is transmitted to the recovery group which ensures that all of the balloonists are safely recovered by their crews.

The festival area has become very densely suburban, with more houses, powerlines and fewer landing fields. Most of the balloons aren't from here, and aren't familiar with the area. It's easy for a balloon to be separated from their crew. We help them link back up, and are in a position to call for emergency services if any are needed.

1049. Re: [ntms-hsmm] Digital cameras at Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2007-08-17 19:01:14 UTC
From: Mark J Culross
Topic: 1047 Message: 1049

John:

I know you said early in your message that you'd rather not use an implementation that requires dedicated PCs (& their associated batteries), but if you do end up going down that path, the "Disposable Video Camera" from CVS Pharmacy makes a very nice, inexpensive (approximately $30), good resolution (standard 320x240, adjustable up to 640x480), excellent auto-shutter light controlled (down to approximately 15 lux or less), modifiable to create a USB-interfaced "webcam" style input device.

There are third-party drivers available that let you use this camera as a webcam & also third-party software that lets you "adjust" its resolution & frame-rate. It's been about a year since I bought a new unit, so I'm not sure what the current state-of-affairs is as to "unlocking" the current cameras (each time the manufacturer brings out a new version, some time must elapse before the software unlock mechanism is discovered & refined).

More info can be found at the following URL:

http://camerahacks.10.forumer.com/index.php?c=5&sid=c1925f2d99c5b73df656d859e9d685a2

We've used one of these cameras on several amateur radio experimental balloon launches, so far only as a video recorder & as a pseudo-still camera. We have future plans to fly one along with an embedded PC compatible card & stream video back to launch-central via 802.11 throughout the entire flight.

Let me know if you need any further info (again, if you end up using dedicated PCs).

Mark J Culross
KD5RXT

----- Original Message ----
From: J. Beadles <n5oom@...>
To: ntms-hsmm@yahoogroups.com
Sent: Friday, August 17, 2007 1:32:23 PM
Subject: [ntms-hsmm] Digital cameras at Plano Balloon Festival

It's time for Plano Balloon Festival again, and that brings me back around to the subject of digital video and images. For the past several years, we've experimented with putting networked cameras out at the park so that hidden parts of the park can be seen by the field and recovery ops folks (us hams).

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enough so that several can be set out.

It has proven remarkably difficult to do this, for the following reasons:

1. Typical webcams as might be found on a PC provide pretty low quality images (and require a computer). The lenses on them are intended generally for people sitting in front of the computer, not to cover an area the size of several football fields, and they generally have poor low light capability.

2. There are a number of network cameras on the market. My experimentation with the lower cost d-link cameras was very disappointing. Generally, they could not transmit frame grabs (video only) and died in a short period of time. There are more, maybe they got better, but are intended for short distance indoor use, and don't have lens mounts for outdoor use. There are a number of IP video cameras for outdoor use, but virtually all are out of my price range (>$400);

3. Frame grabbing has gone out of style. There used to be frame grabbers that would take pretty good pics (such as the old Snappy device). Now the market has gone to live video capture, with framegrabbing as an afterthought. I did some expensive experimentation with some of the USB video capture devices. They did provide 320x240 frame grabs, useless for my purposes. In any case, this still requires a camera, so isn't very useful.

There are ways to use a camcorder attached to a laptop to grab really high quality frames. However, we're back to having a dedicated computer in the field, not what I want.

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4. Another issue is what to do with images or video once you have them? At the Plano Balloon Festival, the launch field is virtually always in a NATted subnet. Images can be made available off the field by FTPing them to an off-site web server. Video is harder, however. There are streaming video servers that we could use, but I don't know how to use them yet. Cameras or other devices that serve video directly can't be accessed off-site unless special provisions are made to open the network to that server. Given the nature of our internet feeds, that generally won't happen.

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$129. It is a commercial entertainment product - you plug the video and audio out of your TV into it, and it serves it across the internet to an unlimited number of clients. It still suffers from the NAT issue above, but should work well across the launch field. The specs say it comes with a 9v 1amp power supply, so it should work ok from battery power.

[Non-text portions of this message have been removed]

1050. Re: Digital cameras at Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2007-08-17 21:50:49 UTC
From: J. Beadles
Topic: 1047 Message: 1050

I've seen that. It looks like a nifty way to use that camera. Not suitable for this application, but great in the way you described.

Now, it may be practical to use one of these 12v micro PCs, but it'll have to have a digitizer that runs under linux to keep the cost down.

--- In ntms-hsmm@yahoogroups.com, Mark J Culross <mjculross@...> wrote:
>
> John:
>
> I know you said early in your message that you'd rather not use an implementation that requires dedicated PCs (& their associated batteries), but if you do end up going down that path, the "Disposable Video Camera" from CVS Pharmacy makes a very nice, inexpensive (approximately $30), good resolution (standard 320x240, adjustable up to 640x480), excellent auto-shutter light controlled (down to approximately 15 lux or less), modifiable to create a USB-interfaced "webcam" style input device.
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> There are third-party drivers available that let you use this camera as a webcam & also third-party software that lets you "adjust" its resolution & frame-rate. It's been about a year since I bought a new unit, so I'm not sure what the current state-of-affairs is as to "unlocking" the current cameras (each time the manufacturer brings out a new version, some time must elapse before the software unlock mechanism is discovered & refined).
>
> More info can be found at the following URL:
>
> http://camerahacks.10.forumer.com/index.php?c=5&sid=c1925f2d99c5b73df656d859e9d685a2
>
> We've used one of these cameras on several amateur radio experimental balloon launches, so far only as a video recorder & as a pseudo-still camera. We have future plans to fly one along with an embedded PC compatible card & stream video back to launch-central via 802.11 throughout the entire flight.
>
> Let me know if you need any further info (again, if you end up using dedicated PCs).
>
> Mark J Culross
> KD5RXT

>
>
> ----- Original Message ----
> From: J. Beadles <n5oom@...>
> To: ntms-hsmm@yahoogroups.com
> Sent: Friday, August 17, 2007 1:32:23 PM
> Subject: [ntms-hsmm] Digital cameras at Plano Balloon Festival
>
> It's time for Plano Balloon Festival again, and that brings me
back
> around to the subject of digital video and images. For the past
> several years, we've experimented with putting networked cameras
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> at the park so that hidden parts of the park can be seen by the
> field and recovery ops folks (us hams).
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> The goal is to have low cost hardware that can run off batteries
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> driven). The units need to be stand alone and as maintenance free
> as possible for 3 days (the duration of the festival). It should
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> enough so that several can be set out.
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not
> to cover an area the size of several football fields, and they
> generally have poor low light capability.
>
> 2. There are a number of network cameras on the market. My
> experimentation with the lower cost d-link cameras was very
> disappointing. Generally, they could not transmit frame grabs
> (video only) and died in a short period of time. There are more,
> maybe they got better, but are intended for short distance indoor
> use, and don't have lens mounts for outdoor use. There are a
number
> of IP video cameras for outdoor use, but virtually all are out of
my
> price range (>$400);
>
> 3. Frame grabbing has gone out of style. There used to be frame
> grabbers that would take pretty good pics (such as the old Snappy
> device). Now the market has gone to live video capture, with

> framegrabbing as an afterthought. I did some expensive
> experimentation with some of the USB video capture devices. They
> did provide 320x240 frame grabs, useless for my purposes. In any
> case, this still requires a camera, so isn't very useful.
>
> There are ways to use a camcorder attached to a laptop to grab
> really high quality frames. However, we're back to having a
> dedicated computer in the field, not what I want.
>
> When I experimented with this last, there was a a standalone
> ethernet video device on eBay, about the size of two boxes of
> playing cards. This $99 box would take up to 4 cameras and dump
live
> video out the port, and would also take frame grabs.
Unfortunately,
> the firmware was very unstable, and it would lock up if you
blinked
> at it wrong.
>
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> field by FTPing them to an off-site web server. Video is harder,
> however. There are streaming video servers that we could use, but
I
> don't know how to use them yet. Cameras or other devices that
> serve video directly can't be accessed off-site unless special
> provisions are made to open the network to that server. Given the
> nature of our internet feeds, that generally won't happen.
>
> So, what next? Well, right now I have a good quality low-light
> security camera. Recently I've run across the "Hava Gold"
> (http://www.myhava. com/products. html) product at Frys for about
> $129. It is a commercial entertainment product - you plug the
video
> and audio out of your TV into it, and it serves it across the
> internet to an unlimited number of clients. It still suffers from
> the NAT issue above, but should work well across the launch field.
> The specs say it comes with a 9v 1amp power supply, so it should
> work ok from battery power.
>
>
>
>
> [Non-text portions of this message have been removed]
>

1051. HAVA platinum HD

Yahoo group: DAWG-HSMM
Date: 2007-08-23 05:07:01 UTC
From: J. Beadles
Topic: 1051 Message: 1051

Picked up a HAVA Platinum HD at Frys over the weekend. Got the platinum because it provides DVR functionality. Finally got it hooked up, and yes, it does work pretty well. The documentation says it uses something up to 6 mb/s. Seems to have about 6 seconds of delay between the live signal and the transmitted signal.

1052. RE: [ntms-hsmm] HAVA platinum HD

Yahoo group: DAWG-HSMM
Date: 2007-08-23 12:43:15 UTC
From: Ken Patterson
Topic: 1051 Message: 1052

Really nice features, but no HMDI interface?

de Ken,
N5EQT

1053. Re: HAVA platinum HD

Yahoo group: DAWG-HSMM
Date: 2007-08-23 22:28:51 UTC
From: J. Beadles
Topic: 1051 Message: 1053

Nope. Good point. It has component video I/O though. I seem to recall that the HDMI interface has a built in mechanism to prevent copying, and since the HAVA permits any number of clients, HDMI may not be in the cards.

--- In ntms-hsmm@yahoogroups.com, "Ken Patterson" <kenp@...> wrote:
>
> Really nice features, but no HMDI interface?
>
> de Ken,
> N5EQT
>

1054. [Fwd: [ai802] Re: 802.11 / 900 Mesh]

Yahoo group: DAWG-HSMM
Date: 2007-09-15 03:02:25 UTC
From: Kilgore
Topic: 1054 Message: 1054

For your information.

Doug KD5OUG

-------- Original Message --------
Subject: [ai802] Re: 802.11 / 900 Mesh
Date: Sat, 15 Sep 2007 02:02:48 -0000
From: Jon Adams <jon@...>
Reply-To: ai802@yahoogroups.com
To: ai802@yahoogroups.com

Hi guys -

Good to hear from you, Matthew! And you too, Bill. There's plenty of 900MHz miniPCI transceivers available now at reasonable prices. That's the good news. The bad news is that the FCC is entertaining new "etiquette" rules for the 902-928MHz band, and these rules could have a serious negative impact on products like these. Basically, it says that the more power you use, the less duty cycle you should have. Kind of a time averaged maximum output power. So if you want to transmit at significant output power (like a watt, the maximum allowed in the band for Part 15 devices), you'll have to have a low duty cycle, which could have a strong impact on your throughput.

Part of this is because of an entity called "Telesaurus" which owns some significant licenses for the 902-928MHz band, but only as a secondary user. They would like to remove the constraints on their use of the spectrum, essentially giving them a primary status, which would severely impact all other users. Please check out the FCC 07-117 document for a bit of history and the FCC's concerns.

Here's the link to the FCC NPRM:
http://fjallfoss.fcc.gov/edocs_public/attachmatch/FCC-07-117A1.pdf

I would recommend that if you have an opinion on this (and most of us probably do), please file comments with the FCC before the due date.

Sincerely, Jon N7UV

Here's a fine summary of the issue from Mitchell Lazarus (a friend of mine and an excellent lawyer in DC):

"The FCC has proposed a "spectrum etiquette" to govern unlicensed operation in the 902-928 MHz band, and possibly in the 2.4 and 5.7 GHz bands as well. If adopted, the etiquette would amount to the biggest change in unlicensed usage since the approval of high-power spread spectrum 22 years ago.

As explained below, the proposal threatens to split unlicensed users into warring camps. If adopted as proposed, the etiquette would have its worst impact on users who operate at high power all the time, primarily the wireless Internet service providers, or WISPs. The main beneficiaries would be applications whose transmissions are of very low power and/or short duration. But the vast majority of unlicensed users fall somewhere in between. They, and the manufacturers who supply them, should carefully work through the effect of the FCC's proposals on their own operations.

Comments are due on October 15, and reply comments on November 14. Companies that care about the outcome can have the most influence by setting out their positions in the first round of comments, and using the second round to challenge those who disagree.

An Etiquette -- Who Needs It?

The term "etiquette" in this context is similar to its near-synonym "protocol," as used in telecommunications. Both words refer to pre-arranged steps for setting up a communications link, although an etiquette tends to be less interactive.

The need for an etiquette -- if there is one -- arises from worsening congestion in the three unlicensed bands earmarked for the relatively high power of one watt: 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz. The first two of these carry most of Wi-Fi, all of Bluetooth, ZigBee, other industrial controls, active RFID, meter-reading equipment, wireless Internet access, amateur radio, and various other licensed services, not to mention countless consumer goods: microwave ovens, cordless phones, nursery monitors, wireless audio gear, and much more. A typical home might have half a dozen or more of these products.

The FCC regulates unlicensed devices mostly on their overall properties, as by setting maximum power and minimum bandwidth. With exceptions, the rules are silent on the details of operation. Yet, despite the near-lawless environment and vast numbers of users, unlicensed communications work pretty well. Manufacturers usually throttle back the power to far less than the rules allow, mainly to extend battery life; but as a side benefit, this practice also limits potential interference to a small area. Another way to save the battery is by keeping transmissions short, and this likewise cuts down interference. Some unlicensed technologies, including Wi-Fi, automatically shift their communications to less crowded parts of the band, enabling multiple users to work around each others' signals and operate successfully even when close together.

Relatively few users, such as the WISPs, exploit the maximum permitted power, and also transmit continuously. The WISPs are mostly small companies that deliver broadband Internet to homes and businesses, particularly in areas beyond the reach of DSL and cable. In the past they have received encouragement from the FCC, which favors widespread, competitive broadband services.

The WISPs generally use directional antennas that focus the transmitter power into a narrow beam, enabling them to reach distant customers. But the resulting high energy can affect other unlicensed devices in the antenna path, sometimes miles away. Similar problems can arise from Wi-Fi access points, especially the higher-powered units installed in some public outdoor areas. Being non-directional, these affect other devices in all directions, although over a smaller radius.

As WISP operations have expanded in recent years, other unlicensed users have increasingly experienced interference. Today the most popular WISP transmitters occupy 1/3 or less of the band. But nothing in the rules prevents a single user from taking up all of the frequencies across the entire band. That would effectively close off the band to others across a large area.

An unlicensed user suffering interference, regardless of its origin, has little recourse. The label on every cordless phone and Wi-Fi laptop says it all: "This device must accept any interference received, including interference that may cause undesired operation." Anyone complaining to the FCC will get a polite response, but no help.

Despite that rule, the newly proposed spectrum etiquette is meant to help protect some unlicensed users -- those that interfere less -- by reining in some of the applications likely to cause them harm. At the same time, of course, those measures will cause harm to whatever applications they restrict. Finding the right balance will not be easy.

Questions to Ponder

The FCC's inquiry begins with three overarching questions. First, is an etiquette necessary? Second: if so, to what bands should it apply? The FCC's first thought is to impose an etiquette, if at all, only at 902-928 MHz. This is the favorite band of the WISPs, as these frequencies can penetrate most buildings and some terrain. The band is also home to a lot of RFID and control equipment used for pipelines, electrical utilities, railroads, and other safety-conscious industries. But the FCC is also open to requiring an etiquette for 2400-2483.5 and 5725-5850 MHz. Third, asks the FCC: what kinds of signals should be subject to an etiquette? Most high-powered unlicensed signals are of three types: frequency hopping, direct sequence, or what the FCC confusingly calls "digital modulation," which includes the OFDM waveforms used for high-speed Wi-Fi. The FCC is inclined to exempt frequency-hopping transmitters from an etiquette, considering that the rules already prohibit them spending more than a small fraction of their time on any one frequency.

In case it decides to go forward, the FCC has listed several ways in which it might implement an etiquette. Any or all of these could turn up in the final rules.

The most controversial element would limit the "duty cycle" --the percentage "on" time -- for higher-powered units. As one example, the

FCC posits that a transmitter operating at 1 Watt (the maximum) might be allowed to run only 10% of the time. A unit at or below 1 milliwatt (1/1000 Watt) might permitted to operate continuously. In between, the percentage would scale upward for lower powers, according to some formula. All percentages would be averaged over 0.4 seconds, a number that already figures prominently in the technical rules.

No form of this proposal is likely to sit well with the WISPs, as it would drastically cut the data speed they can deliver to subscribers. It would also impair devices such as the now-ubiquitous Wi-Fi access points. Because these typically operate at a few tens of milliwatts, the proposed etiquette would silence them for some fraction of every .4 seconds. This may not be noticeable in a home network. But in an office or coffee shop, where an overworked access point might download simultaneously to a dozen or more laptops, a restriction on duty cycle would result in longer waits for email and web pages.

If the FCC does limit duty cycle, further questions arise. Should a transmitter be allowed to vary its power and duty cycle, so long as the two collectively comply? (Sure.) Should several high-powered units, each on a limited duty cycle, be allowed to synchronize their transmissions? Perhaps not. This would enable unit A to transmit during the required quiet times for units B-J, and so on for B and the others. A user could bypass the rule simply by collocating multiple transmitters.

Another proposal would require an unlicensed device to have "listen-before-talk" capability, so as to avoid stepping on other users' transmissions. Wi-Fi transmitters already have this feature, but they use it for selfish purposes, to help ensure that the sender's transmissions get through. The proposal would require a more altruistic implementation, to avoid interrupting other people's communications. The idea is not new. The FCC requires listen-before-talk in unlicensed radios using parts of the 5 GHz U-NII band, to protect the federal radars left behind when the band was reallocated to private use.

Surprisingly omitted from the FCC's proposals is "automatic power control," which continuously adjusts transmitter power to the minimum needed for communication. The technology has long been standard in cell phones, both to extend battery life and to let providers adjust cell sizes as needed, and is also required in the U-NII band. Automatic power control has the unique advantage of minimizing interference to others without any impairment of the device's own performance, and it extends battery life to boot. The chief downside is a more complex circuit design, which translates to higher costs for the device.

Let the Debate Begin

Proceedings on the unlicensed rules tend to be controversial. The vast diversity of users and manufacturers lead to widely divergent interests. The licensed users in the bands, particularly the amateur

radio community, tend to have strong views as well. If the past is any guide, the FCC is likely to receive thousands of strongly-worded comments, all advocating inconsistent positions, each one predicting the downfall of Western civilization if the FCC fails to follow the author's advice.

The folks at the FCC will try very hard to reach a workable result. But the quality of their ultimate decision depends on the quality of the information they receive. Those with an interest in these bands who fail to speak up have no right to complain about the outcome.

USUAL DISCLAIMER: This email is one of an occasional series on telecommunications regulatory issues sent to both clients and non-clients free of charge. It is not legal advice, does not create, extend, or reinstate an attorney-client relationship, and does not solicit the representation of entities that have regulatory counsel. Recipients are free to distribute this email to others, but please include this notice and the signature block. To add, change, or drop an email address, just let me know.

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1055. 802.11b and satellite operations

Yahoo group: DAWG-HSMM
Date: 2007-09-24 01:04:08 UTC
From: kf4yfd
Topic: 1055 Message: 1055

I was wondering about the following technical problem involving 802.11b/g and satellite downlinks in the 2.4GHz band:

I want to setup an 802.11b/g HSMM repeater on what would be channel '-1' at 2402MHz and channel '0' at 2407MHz.

My concern however is with interference _to_ satellite operators. Currently there is only one operational satellite with a 2.4GHz downlink: AO-51 at 2401.200MHz FM. Phase 3E however will be launched soon and have a linear passband with downlinks near this same frequency.

The HSMM system will be transmitting approx 1 Watt PEP across 22MHz (low power density) with gain towards the horizon. With certain satellite passes the satellite operators antenna would be pointed directly at
my HSMM antenna. This is my concern, if my HSMM antenna is directly in the line-of-sight path from the satellite to the satellite-operator could satellite operations still continue or would the narrowband receiver be saturated with my HSMM signal?

Has anyone experimented with this before? I apologize up-front for not knowing the math to calculate this myself.

73's
KL4YFD

1056. RE: [ntms-hsmm] 802.11b and satellite operations

Yahoo group: DAWG-HSMM
Date: 2007-09-24 03:49:26 UTC
From: John Champa
Topic: 1055 Message: 1056

These are good questions, but before I even try to answer them,
how about these question?:

If you know the satellite operator within short ground wave range of your HSMM node, why not just have him give you a phone call whenever the rare event takes place that he is both operating a satellite mode with a 2.3 GHz downlink AND you are in his line-of-sight to the bird? Then you can just shut the HSMM mode down as a courtesy for the brief 2-3 hours in maybe a month in question?

In other words, don't try to solve the problem, before you know it to be a problem.

73,
John - K8OCL

To: ntms-hsmm@yahoogroups.com
From: akz3r0@...
Date: Mon, 24 Sep 2007 01:04:08 +0000
Subject: [ntms-hsmm] 802.11b and satellite operations

I was wondering about the following technical problem involving

802.11b/g and satellite downlinks in the 2.4GHz band:

I want to setup an 802.11b/g HSMM repeater on what would be

channel '-1' at 2402MHz and channel '0' at 2407MHz.

My concern however is with interference _to_ satellite operators.

Currently there is only one operational satellite with a 2.4GHz

downlink: AO-51 at 2401.200MHz FM. Phase 3E however will be launched

soon and have a linear passband with downlinks near this same

frequency.

The HSMM system will be transmitting approx 1 Watt PEP across 22MHz

(low power density) with gain towards the horizon. With certain

satellite passes the satellite operators antenna would be pointed

directly at

my HSMM antenna. This is my concern, if my HSMM antenna is directly

in the line-of-sight path from the satellite to the satellite-

operator could satellite operations still continue or would the

narrowband receiver be saturated with my HSMM signal?

Has anyone experimented with this before? I apologize up-front for

not knowing the math to calculate this myself.

73's

KL4YFD

[Non-text portions of this message have been removed]

1057. RE: [ntms-hsmm] 802.11b and satellite operations

Yahoo group: DAWG-HSMM
Date: 2007-09-24 04:02:30 UTC
From: John Champa
Topic: 1055 Message: 1057

PS - The majority of Part 15 operation is on Channel 6 (80%?). It is the default channel for Linksys and many other APs. About 10% are defaults to Channel 1...that's a problem.

The near-far phenomenon: Chances are that a nearby neighbor running a mere .1 watt on any channel (remember the sidebands!) will clobber him long before your 1W at several mines will even be noticed. Depends on the area in which he lives and how much WLAN activity is around, etc.

If you are running an amp or any kind, we always recommend using an inexpensive passband filter to keep your sidebands within the Amateur Band.

To: ntms-hsmm@yahoogroups.com
From: akz3r0@...
Date: Mon, 24 Sep 2007 01:04:08 +0000
Subject: [ntms-hsmm] 802.11b and satellite operations

I was wondering about the following technical problem involving

802.11b/g and satellite downlinks in the 2.4 GHz band:

I want to setup an 802.11b/g HSMM repeater on what would be

channel '-1' at 2402 MHz and channel '0' at 2407 MHz.

My concern however is with interference _to_ satellite operators.

Currently there is only one operational satellite with a 2.4 GHz

downlink: AO-51 at 2401.200 MHz FM. Phase 3E however will be launched

soon and have a linear passband with downlinks near this same

frequency.

The HSMM system will be transmitting approx 1 Watt PEP across 22 MHz

(low power density) with gain towards the horizon. With certain

satellite passes the satellite operators antenna would be pointed

directly at

my HSMM antenna. This is my concern, if my HSMM antenna is directly

in the line-of-sight path from the satellite to the satellite-

operator could satellite operations still continue or would the

narrowband receiver be saturated with my HSMM signal?

Has anyone experimented with this before? I apologize up-front for

not knowing the math to calculate this myself.

73's

KL4YFD

[Non-text portions of this message have been removed]

1058. Re: 802.11b and satellite operations

Yahoo group: DAWG-HSMM
Date: 2007-09-24 13:41:29 UTC
From: rddunnin@rockwellcollins.com
Topic: 1055 Message: 1058

So John, where can we find these inexpensive passband filters on 2.4 gig?
The ones I have seen have been in the several hundred dollar category.
(Yes I know I could walk across the hall and ask you in your cubicle but I
thought the answer might be of interest to the group) ;-D

RD - KC5QHH

[Non-text portions of this message have been removed]

1059. RE: [ntms-hsmm] Re: 802.11b and satellite operations

Yahoo group: DAWG-HSMM
Date: 2007-09-24 14:46:06 UTC
From: John Champa
Topic: 1055 Message: 1059

Randy,

Well, it is only really needed when using a BDA because the sidebands are stronger too, of course.

I want to write that I saw them at FAB Corp, but I don't think so. There is another vendor that had then for ~$60. My HSMM node is up and running in Richardson on Channel 3, but it is barefoot. If I want to run my 802.11b 1W BDA guess I'd better re-find that source! (HI)

JohnPS - I am using WEP with the old published key (HSMM-). SSID=k8ocl

To: ntms-hsmm@yahoogroups.comFrom: rddunnin@...: Mon, 24 Sep 2007 08:41:29 -0500Subject: [ntms-hsmm] Re: 802.11b and satellite operations

So John, where can we find these inexpensive passband filters on 2.4 gig? The ones I have seen have been in the several hundred dollar category. (Yes I know I could walk across the hall and ask you in your cubicle but I thought the answer might be of interest to the group) ;-DRD - KC5QHH[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1060. 802.11 "mobile" access point

Yahoo group: DAWG-HSMM
Date: 2007-09-24 17:04:32 UTC
From: John Barrett
Topic: 1055 Message: 1060

I've been working on a portable tower for ARES and public service work, and am getting close to the point of installing and integrating the on-board radio and computer systems, and one of the things I've planned is an access point to support WinLink/Postoffice mail access

I have a Linksys AP that I'm planning to use, and would like some suggestions as to antenna configurations that would make the best use of that I've got available.

For permanent antenna mounts, I have several locations at about 10ft height, which I was considering for one or more omni antennas, and I was thinking about a dish or yagi to mount on the tower at 30-40ft height, possibly with a 500-1000mw booster at the antenna.

So - here are the questions :-)

1. is it worth having a second AP so I can run the local/omni antennas with diversity and separate from the directional ??
2. If a second AP is needed, whats currently the best out there for features (hardware/firmware)
3. should I consider boosters for the omnis ??
4. any other ideas that might make this a more versatile setup ??

[Non-text portions of this message have been removed]

1061. Re: [ntms-hsmm] 802.11 "mobile" access point

Yahoo group: DAWG-HSMM
Date: 2007-09-24 19:27:59 UTC
From: Kipton Moravec
Topic: 1055 Message: 1061

On Mon, 2007-09-24 at 12:04 -0500, John Barrett wrote:
> I've been working on a portable tower for ARES and public service work, and
> am getting close to the point of installing and integrating the on-board
> radio and computer systems, and one of the things I've planned is an access
> point to support WinLink/Postoffice mail access
>
>
>
> I have a Linksys AP that I'm planning to use, and would like some
> suggestions as to antenna configurations that would make the best use of
> that I've got available.
>
>
>
> For permanent antenna mounts, I have several locations at about 10ft height,
> which I was considering for one or more omni antennas, and I was thinking
> about a dish or yagi to mount on the tower at 30-40ft height, possibly with
> a 500-1000mw booster at the antenna.

How far do you want to go? 2.4GHz is pretty much line of sight and
trees and buildings block it. So height is the key. We used 15 db
antennas, but also have 24 db antennas, which are not too expensive
(approx $80). When you go to 30 db antennas it jumps to over $200

>
> So - here are the questions :-)
>
> 1. is it worth having a second AP so I can run the local/omni antennas
> with diversity and separate from the directional ??

Yes, but I would wire them to the other router and have the local on one
channel (6 or 11), and the directional on another channel (1). I would
keep the local ones with unmodified HW so they are not considered
Amateur Radio Gear and let local ones link together with WDT, and as
soon as you add the directional antenna to the long range one it is
Amateur Radio Gear.

> 2. If a second AP is needed, whats currently the best out there for
> features (hardware/firmware)

Get a router that is supported by DD-WRT, and load DD-WRT in place of
the manufacturers software. That is what we used at the Plano Balloon
Festival this weekend, and it went together pretty easily. Do a Google
search for "DD-WRT"

All 5 of our routers had the same software even though they were Linksys and Buffalo brands.

Running WDT (a feature with DD-WRT) on both lets you easily connect other routers with a wireless backbone, as opposed to regular routers that assume wire as the backbone.

We also like to use vertical polarity for loc
If money is no object, the Linksys WRT54GL ($80 at Frys, as low as $52 on line) has the most memory for a bigger software download and so you can get the standard version of DD-WRT working. The newer Linksys and Buffalo routers only let you load the mini version of DD-WRT. But that was sufficient for what we needed at the Balloon Festival. And may be sufficient for what you need also. Read up on DD-WRT.

> 3. should I consider boosters for the omnis ??

It is up to you, but we did not. DD-WRT lets you set the power level. However if you set it too high the board may not cool the chips enough. I would say no mods for the local ones and use the antenna that comes with it.

> 4. any other ideas that might make this a more versatile setup ??
>

Running WDT (a feature with DD-WRT) on both lets you easily connect other routers with a wireless backbone, as opposed to regular routers that assume wire as the backbone.

We also like to use vertical polarity for local as that is what is normal for WiFi, and horizontal polarity for the long point-to-point distances for less interference.

Kip
--
Kipton Moravec KE5NGX
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1062. RE: [ntms-hsmm] 802.11 "mobile" access point

Yahoo group: DAWG-HSMM
Date: 2007-09-24 20:10:08 UTC
From: John Barrett
Topic: 1055 Message: 1062

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Kipton Moravec
Sent: Monday, September 24, 2007 2:28 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] 802.11 "mobile" access point

On Mon, 2007-09-24 at 12:04 -0500, John Barrett wrote:
<clip>
> > 3. should I consider boosters for the omnis ??

> It is up to you, but we did not. DD-WRT lets you set the power level.
> However if you set it too high the board may not cool the chips enough.
> I would say no mods for the local ones and use the antenna that comes
> with it.

Running the stock antennas is NOT an option.. the routers are going to be mounted in a steel cabinet :-) and the cabinet is only about 5ft off the ground at its highest point.. so I'd lose a lot if I don't get the antennas up a little higher, and somewhat away from all the steel --- getting them up on the "riser" that supports the tower will at least clear 90% of the metal and get me an antenna on either side of the tower riser for complete coverage. A few extra DBi wouldn't hurt either :-)

Cooling is going to be an issue no matter what I do - even with the 400 cfm ventilation fans I'm installing - will probably end up popping the covers off the routers to give the chips a chance to stay cool :-)

[Non-text portions of this message have been removed]

1063. RE: [ntms-hsmm] 802.11 "mobile" access point

Yahoo group: DAWG-HSMM
Date: 2007-09-25 03:28:49 UTC
From: Kipton Moravec
Topic: 1055 Message: 1063

On Mon, 2007-09-24 at 15:10 -0500, John Barrett wrote:
> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
> Of Kipton Moravec
> Sent: Monday, September 24, 2007 2:28 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: Re: [ntms-hsmm] 802.11 "mobile" access point
>
>
>
> On Mon, 2007-09-24 at 12:04 -0500, John Barrett wrote:
> <clip>
> > > 3. should I consider boosters for the omnis ??
>
> > It is up to you, but we did not. DD-WRT lets you set the power level.
> > However if you set it too high the board may not cool the chips enough.
> > I would say no mods for the local ones and use the antenna that comes
> > with it.
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> Running the stock antennas is NOT an option.. the routers are going to be
> mounted in a steel cabinet :-) and the cabinet is only about 5ft off the
> ground at its highest point.. so I'd lose a lot if I don't get the antennas
> up a little higher, and somewhat away from all the steel --- getting them up
> on the "riser" that supports the tower will at least clear 90% of the metal
> and get me an antenna on either side of the tower riser for complete
> coverage. A few extra DBi wouldn't hurt either :-)
>
> Cooling is going to be an issue no matter what I do - even with the 400 cfm
> ventilation fans I'm installing - will probably end up popping the covers
> off the routers to give the chips a chance to stay cool :-)

I guess I missed what you were trying to accomplish with the "local"
systems.

What range are you trying for and how much are you planning to spend per
node for the local systems?

Why are you using steel cabinets?

You do realize as soon as you modify the equipment, only hams can use
it, and anyone without an Amateur license can not use it.

Kip
*-+
--
Kipton Moravec KE5NGX
"Always do right; this will gratify some people and astonish the rest."

--Mark Twain

1064. RE: [ntms-hsmm] 802.11 "mobile" access point

Yahoo group: DAWG-HSMM
Date: 2007-09-25 14:45:20 UTC
From: John Barrett
Topic: 1055 Message: 1064

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of Kipton Moravec
Sent: Monday, September 24, 2007 10:29 PM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] 802.11 "mobile" access point

On Mon, 2007-09-24 at 15:10 -0500, John Barrett wrote:
> From: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
[mailto:ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com] On
Behalf
> Of Kipton Moravec
> Sent: Monday, September 24, 2007 2:28 PM
> To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> Subject: Re: [ntms-hsmm] 802.11 "mobile" access point
>
>
>
> On Mon, 2007-09-24 at 12:04 -0500, John Barrett wrote:
> <clip>
> > > 3. should I consider boosters for the omnis ??
>
> > It is up to you, but we did not. DD-WRT lets you set the power level.
> > However if you set it too high the board may not cool the chips enough.
> > I would say no mods for the local ones and use the antenna that comes
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> mounted in a steel cabinet :-) and the cabinet is only about 5ft off the
> ground at its highest point.. so I'd lose a lot if I don't get the
antennas
> up a little higher, and somewhat away from all the steel --- getting them
up
> on the "riser" that supports the tower will at least clear 90% of the
metal
> and get me an antenna on either side of the tower riser for complete
> coverage. A few extra DBi wouldn't hurt either :-)
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> Cooling is going to be an issue no matter what I do - even with the 400
cfm
> ventilation fans I'm installing - will probably end up popping the covers
> off the routers to give the chips a chance to stay cool :-)

I guess I missed what you were trying to accomplish with the "local"
systems.

What range are you trying for and how much are you planning to spend per node for the local systems?

Why are you using steel cabinets?

You do realize as soon as you modify the equipment, only hams can use it, and anyone without an Amateur license can not use it.

Kip
*-+
--
Kipton Moravec KE5NGX
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

Ohhh how best to explain this - right now I have a single wrt54g, I had originally planned a setup that would go in my jeep to provide access to a winlink/postoffice setup, with a couple of mag mount whips on the roof of the jeep. I still want that, but transferred to the trailer, but with one or more higher gain omnis higher up for better "local" coverage. Since the 54g has 2 antenna ports.. I was asking if I should use one for a directional backbone link, or get another router for the backbone - that part has been answered - already hunting ebay for a 54gl.

The question now becomes, does adding high gain omni antennas to an unmodified router constitute a "modified ham-only" setup - probably not since plenty of antennas and amps are sold openly. so the only mod that seems to count is the firmware mod to make it "ham only" ??

_,_._,_,_

.

<http://geo.yahoo.com/serv?s=97359714/grpId=12264320/grpspId=1705644089/msgId=1063/stime=1190693078/nc1=4507179/nc2=4025321/nc3=4836040>

[Non-text portions of this message have been removed]

1065. [Fwd: [K5QHD] WA5WWH Ham Radio Sale - List of Items]

Yahoo group: DAWG-HSMM
Date: 2007-09-25 14:56:20 UTC
From: Kilgore
Topic: 1065 Message: 1065

-------- Original Message --------
Subject: [K5QHD] WA5WWH Ham Radio Sale - List of Items
Date: Tue, 25 Sep 2007 11:37:06 -0000
From: k5kj <k5kj@...>
Reply-To: K5QHD@yahoogroups.com
To: K5QHD@yahoogroups.com

Here is a list of items that Larry will have for sale on Sep. 29, 2007

http://www.hamservices.com/hamradio.pdf

1066. Re: [ntms-hsmm] 802.11 "mobile" access point

Yahoo group: DAWG-HSMM
Date: 2007-09-25 16:31:23 UTC
From: Rusty Haddock
Topic: 1055 Message: 1066

John Barrett wrote:
>The question now becomes, does adding high gain omni antennas to an
>unmodified router constitute a "modified ham-only" setup - probably not
>since plenty of antennas and amps are sold openly.

Sold openly does not insure adherence to FCC rules and regs. :-)

Since this is a part 15 device, you have to follow part 15 rules to
keep it as such. You can get "high gain" omni antennas but they are
supposed to be designed for a specific products (maybe set of products).
To add some other antenna not specifically designed for a given Part 15
product supposedly violates Part 15 and now, if you're a ham, you use
it under Part 97.

I'm sure amplifiers (I haven't seen any in this country) are handled
the same way.

This is my understanding from one of the session on WiFi at HamCom.
Your mileage with the Friendly Cookie Company may vary. :-)

-Rusty-
--
_____ Rusty Haddock = AE5AE = rusty@...
|\/ o \ o **Out yonder in the Van Alstyne (TX) Metropolitan Area**
| (-< O o "Microsoft's biggest weakness is that they still
|/__V__/ don't realize how much they suck." --Paul Graham

1067. Re: 802.11 "mobile" access point

Yahoo group: DAWG-HSMM
Date: 2007-09-25 16:48:22 UTC
From: ke5fco
Topic: 1055 Message: 1067

--- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> John Barrett wrote:
>>The question now becomes, does adding high gain omni antennas to an
>>unmodified router constitute a "modified ham-only" setup - probably not
>>since plenty of antennas and amps are sold openly.
>
> Sold openly does not insure adherence to FCC rules and regs. :-)
>
> Since this is a part 15 device, you have to follow part 15 rules to
> keep it as such. You can get "high gain" omni antennas but they are
> supposed to be designed for a specific products (maybe set of products).
> To add some other antenna not specifically designed for a given Part 15
> product supposedly violates Part 15 and now, if you're a ham, you use
> it under Part 97.
>
> I'm sure amplifiers (I haven't seen any in this country) are handled
> the same way.
>
> This is my understanding from one of the session on WiFi at HamCom.
> Your mileage with the Friendly Cookie Company may vary. :-)
>
If I recall correctly, they tweaked the rules to Part 15 to say that
you can mix antennas/radios/amps, but at that point it is up to the
operator to ensure that they are operating within Part 15 rules. So
you can take an 8 db omni and hook it up to the linksys (or whatever
flavor you choose) and as long as you ensure that the radio output
power is low enough to stay under your 36db eirp limit, then you are
still operating in Part 15.

As for the DD-WRT software, I have only used it briefly, but I dont
recall anything about it being Ham specific. It just lets you
tweak/change a ton of settings that is not possible in the stock
router software.

1068. HSMM / Hinternet Wikipedia page

Yahoo group: DAWG-HSMM
Date: 2007-09-25 20:42:17 UTC
From: John Phelps
Topic: 1068 Message: 1068

I made a few more contributions to the hinternet Wikipedia page and would like some feedback and possibly a double-check for technical accuracy.
http://en.wikipedia.org/wiki/Hinternet

Also, does anyone have an 802.11a HSMM repeater up yet?

73's
John Phelps
KL4YFD

[Non-text portions of this message have been removed]

1069. Re: 802.11 "mobile" access point

Yahoo group: DAWG-HSMM
Date: 2007-09-25 21:48:34 UTC
From: J. Beadles
Topic: 1055 Message: 1069

--- In ntms-hsmm@yahoogroups.com, "ke5fco" <josh@...> wrote:
>
> --- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@> wrote:
> >
> > John Barrett wrote:
> >>The question now becomes, does adding high gain omni antennas to
an
> >>unmodified router constitute a "modified ham-only" setup -
probably not
> >>since plenty of antennas and amps are sold openly.
> >
> > Sold openly does not insure adherence to FCC rules and regs. :-)
> >
> > Since this is a part 15 device, you have to follow part 15 rules
to
> > keep it as such. You can get "high gain" omni antennas but they
are
> > supposed to be designed for a specific products (maybe set of
products).
> > To add some other antenna not specifically designed for a given
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> > product supposedly violates Part 15 and now, if you're a ham,
you use
> > it under Part 97.
> >
> > I'm sure amplifiers (I haven't seen any in this country) are
handled
> > the same way.
> >
> > This is my understanding from one of the session on WiFi at
HamCom.
> > Your mileage with the Friendly Cookie Company may vary. :-)
> >
> If I recall correctly, they tweaked the rules to Part 15 to say
that
> you can mix antennas/radios/amps, but at that point it is up to the
> operator to ensure that they are operating within Part 15 rules.

It is true that the FCC did modify the rules to allow some
flexibility in antenna selection. However, the rules as I read them
only allowed for swapping within the same accepted type of antenna.
For example, if a radio was accepted with an 8db omni, that does not
permit you to use a 10db omni or an 8db panel. I can't recall I
ever saw anything about power amp swapping. Also, if the radio
isn't accepted with a power amp, you can't use on in any case and be

part 15 legal.

> So
> you can take an 8 db omni and hook it up to the linksys (or
whatever
> flavor you choose) and as long as you ensure that the radio output
> power is low enough to stay under your 36db eirp limit, then you
are
> still operating in Part 15.

Only if it was accepted with an 8db antenna to begin with. The antenna they sell is a 7db, I believe. It's a finicky detail, but there it is.

> As for the DD-WRT software, I have only used it briefly, but I dont
> recall anything about it being Ham specific. It just lets you
> tweak/change a ton of settings that is not possible in the stock
> router software.

Technically, it's not. However, it does allow you to change the xmit power. Doing this takes you out of the part 15 rules. Lots of people do it, but that doesn't make it legal.

A good note about the DD-WRT firmware is that it appeared to allow the radios to WDS bridge at a much lower SNR than the Sveasoft Alchemy did. (or maybe they are displaying the survey readings differently.) I'll have to flash the APs on the Eiseman center and our building here to see if they can now bridge in spite of the ambient noise.

1070. RE: [ntms-hsmm] Re: 802.11 "mobile" access point

Yahoo group: DAWG-HSMM
Date: 2007-09-26 14:10:03 UTC
From: John Barrett
Topic: 1055 Message: 1070

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of J. Beadles
Sent: Tuesday, September 25, 2007 4:49 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: 802.11 "mobile" access point

--- In ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com,
"ke5fco" <josh@...> wrote:
>
> --- In ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com,
Rusty Haddock <rusty@> wrote:
> >
> > John Barrett wrote:
> >>The question now becomes, does adding high gain omni antennas to
an
> >>unmodified router constitute a "modified ham-only" setup -
probably not
> >>since plenty of antennas and amps are sold openly.
> >
> > Sold openly does not insure adherence to FCC rules and regs. :-)
> >
> > Since this is a part 15 device, you have to follow part 15 rules
to
> > keep it as such. You can get "high gain" omni antennas but they
are
> > supposed to be designed for a specific products (maybe set of
products).
> > To add some other antenna not specifically designed for a given
Part 15
> > product supposedly violates Part 15 and now, if you're a ham,
you use
> > it under Part 97.
> >
> > I'm sure amplifiers (I haven't seen any in this country) are
handled
> > the same way.
> >
> > This is my understanding from one of the session on WiFi at
HamCom.
> > Your mileage with the Friendly Cookie Company may vary. :-)
> >
> If I recall correctly, they tweaked the rules to Part 15 to say
that

> you can mix antennas/radios/amps, but at that point it is up to the
> operator to ensure that they are operating within Part 15 rules.

It is true that the FCC did modify the rules to allow some flexibility in antenna selection. However, the rules as I read them only allowed for swapping within the same accepted type of antenna. For example, if a radio was accepted with an 8db omni, that does not permit you to use a 10db omni or an 8db panel. I can't recall I ever saw anything about power amp swapping. Also, if the radio isn't accepted with a power amp, you can't use on in any case and be part 15 legal.

> So
> you can take an 8 db omni and hook it up to the linksys (or
whatever
> flavor you choose) and as long as you ensure that the radio output
> power is low enough to stay under your 36db eirp limit, then you
are
> still operating in Part 15.

Only if it was accepted with an 8db antenna to begin with. The antenna they sell is a 7db, I believe. It's a finicky detail, but there it is.

> As for the DD-WRT software, I have only used it briefly, but I dont
> recall anything about it being Ham specific. It just lets you
> tweak/change a ton of settings that is not possible in the stock
> router software.

Technically, it's not. However, it does allow you to change the xmit power. Doing this takes you out of the part 15 rules. Lots of people do it, but that doesn't make it legal.

A good note about the DD-WRT firmware is that it appeared to allow the radios to WDS bridge at a much lower SNR than the Sveasoft Alchemy did. (or maybe they are displaying the survey readings differently.) I'll have to flash the APs on the Eiseman center and our building here to see if they can now bridge in spite of the ambient noise.

.

<http://geo.yahoo.com/serv?s=97359714/grpId=12264320/grpspId=1705644089/msgI
d=1069/stime=1190756994/nc1=4507179/nc2=3848643/nc3=4025304>
==========

Welp - my wrt54gl is on the way, already loaded with OpenWRT, but that's easy enough to change, I guess I'll use it for the local access point, and use the wrt54g I already have for the interlink (unless there is some reason to have the full DD-WRT vs the lite version on the interlink)

Now just need to pick out an amp and an antenna for the interlink :-) Then comes the fun part - working out a mount to attach it to my tower pointing

in any direction :-)

I've got a scrap Dish since we switched to FIOS - what might be involved in getting that up for wifi ?? or should I save it for microwave stuff and just buy and OTS yagi or grid dish ??

I'm probably going to mount the local AP in an enclosure closer to the antennas with POE.;.;.; going to need to locate some RP-TNC to N pigtails for that setup..

[Non-text portions of this message have been removed]

1071. Re: [Fwd: [K5QHD] WA5WWH Ham Radio Sale - List of Items]

Yahoo group: DAWG-HSMM
Date: 2007-09-26 14:20:09 UTC
From: Jerry Karlovich, KD5OM
Topic: 1065 Message: 1071

Excellent time for a Garage Sale of this stuff! The Lone Star DX Association quarterly luncheon is also this Saturday in Arlington. Hummmm? Buy a 5 element 20 meter monobander cheap or go talk trash with a bunch of other DXers? Unfortunately, that antenna would consume my entire residential lot.

Jerry
www.kd5om.com

--- In ntms-hsmm@yahoogroups.com, Kilgore <kilgore1317@...> wrote:
>
>
>
> -------- Original Message --------
> Subject: [K5QHD] WA5WWH Ham Radio Sale - List of Items
> Date: Tue, 25 Sep 2007 11:37:06 -0000
> From: k5kj <k5kj@...>
> Reply-To: K5QHD@yahoogroups.com
> To: K5QHD@yahoogroups.com
>
>
>
> Here is a list of items that Larry will have for sale on Sep. 29, 2007
>
> http://www.hamservices.com/hamradio.pdf
>

1072. Re: [ntms-hsmm] Re: 802.11 "mobile" access point

Yahoo group: DAWG-HSMM
Date: 2007-09-26 15:54:10 UTC
From: Kilgore
Topic: 1055 Message: 1072

If you are going to use a dish or yagi, that means you are going point-to-point. The higher the gain, the narrower the beam width. And the narrower the bandwidth, the more difficult it becomes to point.

I like the 14dbi Rootenna because it has a 30 degree horizontal and vertical beamwidth. It makes pointing by hand easier. They have a higher gain unit but the beamwidth is narrower.

The folks at the North Texas Microwave Society have adapted the Dish dishes to work with a 2.4Ghz feed but it's a mechanical challenge. For use as a portable ARES unit it's not recommended. And since it's an offset feed, it's difficult to point.

Are you working for a permanent installation on your house or are you working for a portable unit that will have to be erected on location? I'm having trouble understanding what you are designing.

I have a new, unused weather resistant plastic lawn sprinkler control box like the one N5OOM used on his first versions that can be yours for cost.

Doug Kilgore KD5OUG
Ph 214-770-2394 Cell

John Barrett wrote:

>
> Welp - my wrt54gl is on the way, already loaded with OpenWRT, but that's
> easy enough to change, I guess I'll use it for the local access point, and
> use the wrt54g I already have for the interlink (unless there is some
> reason
> to have the full DD-WRT vs the lite version on the interlink)
>
> Now just need to pick out an amp and an antenna for the interlink :-) Then
> comes the fun part - working out a mount to attach it to my tower pointing
> in any direction :-)
>
> I've got a scrap Dish since we switched to FIOS - what might be
> involved in
> getting that up for wifi ?? or should I save it for microwave stuff
> and just
> buy and OTS yagi or grid dish ??
>
> I'm probably going to mount the local AP in an enclosure closer to the
> antennas with POE.;.;.; going to need to locate some RP-TNC to N pigtails
> for that setup..
>

>
>
>

1073. RE: [ntms-hsmm] Re: 802.11 "mobile" access point

Yahoo group: DAWG-HSMM
Date: 2007-09-26 16:24:09 UTC
From: John Barrett
Topic: 1055 Message: 1073

The beam will be mounted to the side of a triangular tower section..
probably at one of the corners, with a home-brew azimuth rotator for getting
it pointed right, since there will be no access to the antenna when its
cranked up 30+ feet in the air :-)

Portable is relative - I've got about 100 cuft of cargo compartments to
stick stuff in on the trailer (2x 5'x5' decks about 20" high each) --- if it
can be stashed in the cargo compartment, or stored in one of the cargo tubes
that I plan to add for stuff longer than 5ft, and attached to the tower in
less than 15-20 minutes.. then its portable :-)

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of Kilgore
Sent: Wednesday, September 26, 2007 10:54 AM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Re: 802.11 "mobile" access point

If you are going to use a dish or yagi, that means you are going
point-to-point. The higher the gain, the narrower the beam width. And
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vertical beamwidth. It makes pointing by hand easier. They have a
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offset feed, it's difficult to point.

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working for a portable unit that will have to be erected on location?
I'm having trouble understanding what you are designing.

I have a new, unused weather resistant plastic lawn sprinkler control
box like the one N5OOM used on his first versions that can be yours for
cost.

Doug Kilgore KD5OUG
Ph 214-770-2394 Cell

John Barrett wrote:

>
> Welp - my wrt54gl is on the way, already loaded with OpenWRT, but that's
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> Now just need to pick out an amp and an antenna for the interlink :-) Then
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>
> I'm probably going to mount the local AP in an enclosure closer to the
> antennas with POE.;.;.; going to need to locate some RP-TNC to N pigtails
> for that setup..
>
>
>
>

[Non-text portions of this message have been removed]

1074. WIFI Card recommendation

Yahoo group: DAWG-HSMM
Date: 2007-10-11 14:44:07 UTC
From: Jerry Karlovich, KD5OM
Topic: 1074 Message: 1074

We were at Inks Lake SP this last weekend and was hoping to take advantage of their free wifi. My ever so wonderful HP card didn't do so well. I almost had to be within a hundred feet of the source to connect. Where as the campers next to me were able to connect from their campsite. (She was using a MAC notebook). Are the any reviews on PCI wifi cards for notebook computers listing their ablility to hear a distant wifi sig. Or can I have some recommendations for a really good PCI card for my notebook. I have a Dell running XP sp2.

While at the park and just for a few minutes I was picking up a bridge. What would be involved with a bridge up on my 18' push-up painter's pole I normally have my Buddie-pole antenna on?

JK
www.kd5om.com

1075. Re: [ntms-hsmm] WIFI Card recommendation

Yahoo group: DAWG-HSMM
Date: 2007-10-11 14:50:54 UTC
From: Keith Berry
Topic: 1074 Message: 1075

Jerry,

My recommendation is to get a USB type device with a cable and then put the antenna in the window. You can move it around that way and also use an extension cable to put it outside of the RV/trailer if needed. Here is one by Linksys http://www.linksys.com/servlet/Satellite?c=L_Product_C2&childpagename=US%2FLayout&cid=1160093476789&pagename=Linksys%2FCommon%2FVisitorWrapper&lid=7678939789B30

Keith KE0FV

----- Original Message ----
From: "Jerry Karlovich, KD5OM" <kd5oldman@...>
To: ntms-hsmm@yahoogroups.com
Sent: Thursday, October 11, 2007 9:44:07 AM
Subject: [ntms-hsmm] WIFI Card recommendation

We were at Inks Lake SP this last weekend and was hoping to take advantage of their free wifi. My ever so wonderful HP card didn't do so well. I almost had to be within a hundred feet of the source to connect. Where as the campers next to me were able to connect from their campsite. (She was using a MAC notebook). Are the any reviews on PCI wifi cards for notebook computers listing their ablility to hear a distant wifi sig. Or can I have some recommendations for a really good PCI card for my notebook. I have a Dell running XP sp2.

While at the park and just for a few minutes I was picking up a bridge. What would be involved with a bridge up on my 18' push-up painter's pole I normally have my Buddie-pole antenna on?

JK
www.kd5om.com

[Non-text portions of this message have been removed]

1076. Re: WIFI Card recommendation

Yahoo group: DAWG-HSMM
Date: 2007-10-11 15:18:15 UTC
From: keithjjo1
Topic: 1074 Message: 1076

Jerry,

One thing to keep in mind is that you not only need to be able to hear the access point you are trying to connect to but the access point must also be able to hear you. Most consumer wifi equipment puts out about 14dBm (25mw) http://www.fab-corp.com/pages.php?pageid=1 of power. This may not be enough to get your signal heard in fringe areas. I have used many Proxim/ORiNOCO/Lucent cards http://www.proxim.com/products/cp/pc.html and have always had good luck. They put out between 60mW and 100mW depending on the card (check the datasheets for any of the cards).

Another plus is that they have an external antenna connection on the card (MC if memory serves me) and I have a mag mount antenna that I got from FAB-Corp that works well to pull in those weak signals http://www.fab-corp.com/product.php?productid=1659&cat=282&page=1 looks like they are discontinuing them though.

Hope that helps,
Keith
www.KB8SOE.com

--- In ntms-hsmm@yahoogroups.com, "Jerry Karlovich, KD5OM" <kd5oldman@...> wrote:
>
> We were at Inks Lake SP this last weekend and was hoping to take
> advantage of their free wifi. My ever so wonderful HP card didn't do so
> well. I almost had to be within a hundred feet of the source to
> connect. Where as the campers next to me were able to connect from
> their campsite. (She was using a MAC notebook). Are the any reviews on
> PCI wifi cards for notebook computers listing their ablility to hear a
> distant wifi sig. Or can I have some recommendations for a really good
> PCI card for my notebook. I have a Dell running XP sp2.
>
> While at the park and just for a few minutes I was picking up a bridge.
> What would be involved with a bridge up on my 18' push-up painter's
> pole I normally have my Buddie-pole antenna on?
>
> JK
> www.kd5om.com
>

1077. Re: WIFI Card recommendation

Yahoo group: DAWG-HSMM
Date: 2007-10-11 15:19:44 UTC
From: keithjjo1
Topic: 1074 Message: 1077

I forgot to mention, FAB-Corp also give an Amateur Radio discount.
Just be sure to mention it to them when ordering.

73,
Keith
www.KB8SOE.com

--- In ntms-hsmm@yahoogroups.com, "keithjjo1" <keithjjo@...> wrote:
>
> Jerry,
>
> One thing to keep in mind is that you not only need to be able to hear
> the access point you are trying to connect to but the access point
> must also be able to hear you. Most consumer wifi equipment puts out
> about 14dBm (25mw) http://www.fab-corp.com/pages.php?pageid=1 of
> power. This may not be enough to get your signal heard in fringe
> areas. I have used many Proxim/ORiNOCO/Lucent cards
> http://www.proxim.com/products/cp/pc.html and have always had good
> luck. They put out between 60mW and 100mW depending on the card (check
> the datasheets for any of the cards).
>
> Another plus is that they have an external antenna connection on the
> card (MC if memory serves me) and I have a mag mount antenna that I
> got from FAB-Corp that works well to pull in those weak signals
> http://www.fab-corp.com/product.php?productid=1659&cat=282&page=1
> looks like they are discontinuing them though.
>
> Hope that helps,
> Keith
> www.KB8SOE.com
>
>
> --- In ntms-hsmm@yahoogroups.com, "Jerry Karlovich, KD5OM"
> <kd5oldman@> wrote:
> >
> > We were at Inks Lake SP this last weekend and was hoping to take
> > advantage of their free wifi. My ever so wonderful HP card didn't
do so
> > well. I almost had to be within a hundred feet of the source to
> > connect. Where as the campers next to me were able to connect from
> > their campsite. (She was using a MAC notebook). Are the any
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> > While at the park and just for a few minutes I was picking up a
bridge.
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> > pole I normally have my Buddie-pole antenna on?
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> > JK
> > www.kd5om.com
> >
>

1078. Re: [ntms-hsmm] WIFI Card recommendation

Yahoo group: DAWG-HSMM
Date: 2007-10-11 16:24:55 UTC
From: Kipton Moravec
Topic: 1074 Message: 1078

There are a lot of ways to skin this cat.

At the Plano Balloon Festival the church had WiFi but we could not access it from the roof where our antenna pointing to the field was located. We were able to place another router where we could get signal and ran a wire between them. It also changed the frequency as the church was using channel 6 and we wanted to use channel 1 for the Balloon Festival.

I was able to get the church directly on my laptop at the operations tent, which was 2500 feet from the church because the church was clear line of sight and I had a 15 db gain antenna on the church pointing my way.

The first thing I would try is to get a router that is compatible with DD-WRT software and put it up in the air and run a Ethernet cable to your laptop. You could set it on the top of your RV or hook it to an antenna mast. The higher up the better. That will probably do it.

The second option would be to add an external directional antenna to the router. A 15 db yagi is around $30, and there are sometimes deals on other ones. Look at http://www.hyperlinktech.com and http://pacwireless.com

A third option is to do exactly what we did at the church, get two routers put one high up and the other to broadcast to you on another frequency so you do not have to have a wire to your laptop. (Like a repeater.)

If you want to borrow one or two routers to play with let me know.

Kip

On Thu, 2007-10-11 at 14:44 +0000, Jerry Karlovich, KD5OM wrote:
> We were at Inks Lake SP this last weekend and was hoping to take
> advantage of their free wifi. My ever so wonderful HP card didn't do so
> well. I almost had to be within a hundred feet of the source to
> connect. Where as the campers next to me were able to connect from
> their campsite. (She was using a MAC notebook). Are the any reviews on
> PCI wifi cards for notebook computers listing their ablility to hear a
> distant wifi sig. Or can I have some recommendations for a really good
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> What would be involved with a bridge up on my 18' push-up painter's
> pole I normally have my Buddie-pole antenna on?
>

> JK
> www.kd5om.com
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
--
Kipton Moravec KE5NGX
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1079. Re: [ntms-hsmm] WIFI Card recommendation

Yahoo group: DAWG-HSMM
Date: 2007-10-11 17:37:43 UTC
From: Kilgore
Topic: 1074 Message: 1079

That's exactly what I did for my 3 month RV trip to Alaska!

I used a Linksys WRT54GL loaded with DD-WRT used in the bridge mode. I used one of the yellow push-up paint poles from Home Depot as a mast which was mounted in a flagpole holder attached to the ladder on the back of my trailer.

The linksys was installed in a Pacific Wireless 14dbi Rootenna at the top of the mast. I used Cat-5 wire to bring the signal into the trailer and to send power up to the Linksys. I made an inexpensive Power-over-ethernet (POE) splitter using an RJ-45 Keystone connector which I can leave permanently installed in the Rootenna with the Linksys.

At the bottom end I have another POE splitter to combine the data and power to the Cat-5 cable. I use a Cat-5 crossover cable to bring the data signal to the LAN input on my laptop.

It takes me about 15 minutes to set up the rig. I have to mount the Rootenna on the top of the mast, set the mast in the flag pole holder on my trailer and feed the Cat-5 cable thru a window. From experience, I learned that I could put a piece of duct tape over the small opening at the window to prevent rain from getting in.

With WiFi, line of sight is very important. I found at campgrounds the tree and larger RV would block the signal. The quality of the installation of WiFi in RV parks varies. At the high end I have found well engineered systems with directional antennas mounted high and boosters. At the low end, I found several parks that have an Access Point inside the building on the desk by the computer. When choosing an RV park that advertises WiFi, be sure to query them about the antennas.

I like the 14 dbi Rootenna because it has about a 30 degree horizontal and vertical beamwidth. That makes it easy to lineup. The higher gain antennas have a narrower beamwidth making their aiming a little more difficult.
http://www.pacwireless.com/products/RT24.shtml

If you decide to go this route, I'll be glad to help yiou.

Doug Kilgore KD5OUG

Jerry Karlovich, KD5OM wrote:

While at the park and just for a few minutes I was picking up a bridge. What would be involved with a bridge up on my 18' push-up painter's pole I normally have my Buddie-pole antenna on?

JK
www.kd5om.com

[Non-text portions of this message have been removed]

1080. Re:WIFI Card recommendation

Yahoo group: DAWG-HSMM
Date: 2007-10-12 13:48:11 UTC
From: rddunnin@rockwellcollins.com
Topic: 1074 Message: 1080

If you don't want an HSMM project where you have to set up a waterproof, power-over-ethernet custom flashloaded Linksys router there are a couple of things you can do. One is to get a high power card. I found several 200mW cards at HamCom for $5.00 each. They were SMC high power 802.11B cards that have firmware supporting WPA so they are the last evolution of the wireless B cards. They have a detatchable antenna using RM-MMCC connectors. PacWireless has a nice RP-SMA folding antenna that mounts on the laptop. It can be configured with any type of pigtail you wish. This card has worked very well for me even on a fussy Compaq laptop. I give it a 9 out of 10.

See:
http://reviews.cnet.com/adapters-nics/smc-smc2532w-b-2/4505-3380_7-21183545.html

EPAY (or "Everybody Bids Against You") currently has one up with a starting bid under $10.00. See: 26016864807

Antenna: http://www.connexwireless.com/products/RV24-5RD.shtml

73,

RD - KC5QHH

[Non-text portions of this message have been removed]

1081. Re:WIFI Card recommendation

Yahoo group: DAWG-HSMM
Date: 2007-10-12 20:00:05 UTC
From: kc2mmi_whitelisted email
Topic: 1074 Message: 1081

The seatlewireless web site lists a lot of hardware specs, including tx/rx for many many cards. I'm not sure how current it has been kept but it would be a very good start.

Get a free email account with anti spam protection.
http://www.bluebottle.com/tag/2

[Non-text portions of this message have been removed]

1082. Re: WIFI Card recommendation

Yahoo group: DAWG-HSMM
Date: 2007-10-15 01:48:13 UTC
From: Jerry Karlovich, KD5OM
Topic: 1074 Message: 1082

I think I like Doug's solution best. A gain antenna on a mast allows me a bit more flexibility at the camp grounds so I don't need to restrict myself to a site close to the source. Although there are only a few parks with wifi, Inks Lake is a very nice park right in the middle of the Texas Hill Country and has 2 wifi access points. Only problem is if you're relying on your on computer wifi card, you only have a small number of campsites to choose from. Having an antenna on a 20' mast solves the problem. I can also add another wireless router to repeat the signal, I think.

I just replaced my old Netgear 802.11b wireless router with a Linksys wrt54g so if anybody want to buy a really cheap 802.11b I have one. I see they're not very popular on ebay.

Later

JK
www.kd5om.com

1083. Re: WIFI Card recommendation

Yahoo group: DAWG-HSMM
Date: 2007-10-16 20:58:41 UTC
From: Jerry Karlovich, KD5OM
Topic: 1074 Message: 1083

Doug,

When you get a chance let me know which one of those antennas it is from that web site that I need. I have no issues re-installing the board inside their antenna box.

JK
www.kd5om.com

1084. Re: [ntms-hsmm] Re: WIFI Card recommendation

Yahoo group: DAWG-HSMM
Date: 2007-10-21 22:40:17 UTC
From: Johnny KD5LWU
Topic: 1074 Message: 1084

Jerry Hi - can you outline the steps to use a second wireless router to make a repeater system? I live less than 3 miles from my work and have cable modem at home and dialup at work. I have a ham friend who lives exactly between the two where I can setup a second router to forward the signal but have never done this so help would be appreciated. It would be nice to have faster Internet at work Thanks 73 Johnny KD5LWU Cortez, CO

Jerry Karlovich, KD5OM wrote:
>
> I think I like Doug's solution best. A gain antenna on a mast allows me
> a bit more flexibility at the camp grounds so I don't need to restrict
> myself to a site close to the source. Although there are only a few
> parks with wifi, Inks Lake is a very nice park right in the middle of
> the Texas Hill Country and has 2 wifi access points. Only problem is if
> you're relying on your on computer wifi card, you only have a small
> number of campsites to choose from. Having an antenna on a 20' mast
> solves the problem. I can also add another wireless router to repeat
> the signal, I think.
>
> I just replaced my old Netgear 802.11b wireless router with a Linksys
> wrt54g so if anybody want to buy a really cheap 802.11b I have one. I
> see they're not very popular on ebay.
>
> Later
>
> JK
> www.kd5om.com
>
>

[Non-text portions of this message have been removed]

1085. Re: [ntms-hsmm] Re: WIFI Card recommendation

Yahoo group: DAWG-HSMM
Date: 2007-10-22 02:01:47 UTC
From: Kipton Moravec
Topic: 1074 Message: 1085

The main thing is Line of Sight. WiFi does not go through trees.

I used DD-WRT software in a Linksys or Buffalo WiFi Router. Check the DD-WRT website to get a router that is capable of loading their SW. They have different loads, you will be fine for this application with the mini load.

The way I would recommend would have 4 routers with directional antennas.
At work you have a router (1) with a directional antenna pointing towards your friend's house. At your friend's house have a router (2) with a directional antenna pointed towards work. This is the first link.

The second link is a router (3) with a directional antenna from your friend's house pointing towards your house. And a fourth router (4) at your house with a directional antenna pointing towards your friend's house.

DD-WRT can make the router act as a host (like a normal router) or as an access point (like your computer) Make Router 1 and 3 Access points and Routers 2 and 4 normal router functions.

For that distance a 15 db antenna should work fine. With the wide 30 degree beam it should be easy to point. I would put them up with horizontal polarity (to have less interference from others). And have one link on channel 1 and the other on channel 6 to keep them from interfering with each other.

Since one router is an access point, it can plug into the routers WLAN input and will be treated as the Internet source. Which is what you do at your friend's house with the two routers. The DD-WRT also does NAT, so your home network will be 192.168.1.XXX, The Access point at your friend's house will translate to something else, 192.168.2.XXX, the router could change it to a third range 192.268.3.XXX, and then the access point at work will change it to a 4th network 194.168.4.XXX which can be used for all the computers at work.

Again the main thing is clear line of sight, will you be able to see the antennas at work and at your house from your friend's house? How high up will you have to go?

Kip

On Sun, 2007-10-21 at 16:40 -0600, Johnny KD5LWU wrote:
> Jerry Hi - can you outline the steps to use a second wireless router to
> make a repeater system? I live less than 3 miles from my work and have
> cable modem at home and dialup at work. I have a ham friend who lives

> exactly between the two where I can setup a second router to forward the
> signal but have never done this so help would be appreciated. It would
> be nice to have faster Internet at work Thanks 73 Johnny KD5LWU Cortez, CO

>
--
Kipton Moravec KE5NGX
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1086. Re: [ntms-hsmm] Re: WIFI Card recommendation

Yahoo group: DAWG-HSMM
Date: 2007-10-22 03:15:55 UTC
From: Johnny KD5LWU
Topic: 1074 Message: 1086

Thank you I looked at the web page and it looks complicated...I will read the instruction page carefully over the next few days...I have 3 Linksys routers already so just need one more plus all the antenna's.....I do not have line of site from my front door but I think from the roof I will be able to see my friend's house. It will be great when we have inexpensive WiFi 70cm rigs to do this with! Guess I will save some $ for the project before I actually begin....73 Johnny KD5LWU

Kipton Moravec wrote:
>
> The main thing is Line of Sight. WiFi does not go through trees.
>
> I used DD-WRT software in a Linksys or Buffalo WiFi Router. Check the
> DD-WRT website to get a router that is capable of loading their SW. They
> have different loads, you will be fine for this application with the
> mini load.
>
> The way I would recommend would have 4 routers with directional
> antennas.
> At work you have a router (1) with a directional antenna pointing
> towards your friend's house. At your friend's house have a router (2)
> with a directional antenna pointed towards work. This is the first link.
>
> The second link is a router (3) with a directional antenna from your
> friend's house pointing towards your house. And a fourth router (4) at
> your house with a directional antenna pointing towards your friend's
> house.
>
> DD-WRT can make the router act as a host (like a normal router) or as an
> access point (like your computer) Make Router 1 and 3 Access points and
> Routers 2 and 4 normal router functions.
>
> For that distance a 15 db antenna should work fine. With the wide 30
> degree beam it should be easy to point. I would put them up with
> horizontal polarity (to have less interference from others). And have
> one link on channel 1 and the other on channel 6 to keep them from
> interfering with each other.
>
> Since one router is an access point, it can plug into the routers WLAN
> input and will be treated as the Internet source. Which is what you do
> at your friend's house with the two routers. The DD-WRT also does NAT,
> so your home network will be 192.168.1.XXX, The Access point at your
> friend's house will translate to something else, 192.168.2.XXX, the
> router could change it to a third range 192.268.3.XXX, and then the
> access point at work will change it to a 4th network 194.168.4.XXX which

> can be used for all the computers at work.
>
> Again the main thing is clear line of sight, will you be able to see the
> antennas at work and at your house from your friend's house? How high
> up will you have to go?
>
> Kip
>
> On Sun, 2007-10-21 at 16:40 -0600, Johnny KD5LWU wrote:
> > Jerry Hi - can you outline the steps to use a second wireless router to
> > make a repeater system? I live less than 3 miles from my work and have
> > cable modem at home and dialup at work. I have a ham friend who lives
> > exactly between the two where I can setup a second router to forward
> the
> > signal but have never done this so help would be appreciated. It would
> > be nice to have faster Internet at work Thanks 73 Johnny KD5LWU
> Cortez, CO
>
> >
> --
> Kipton Moravec KE5NGX
> "Always do right; this will gratify some people and astonish the rest."
> --Mark Twain
>
>

[Non-text portions of this message have been removed]

1087. Re: [ntms-hsmm] Re: WIFI Card recommendation

Yahoo group: DAWG-HSMM
Date: 2007-10-22 04:55:16 UTC
From: Johnny KD5LWU
Topic: 1074 Message: 1087

Actually when I think about it a little more all I need is a router and antenna for AP at my friends house since he also has cable modem so that should simplify it a whole lot - 73 Johnny KD5LWU

Johnny KD5LWU wrote:
>
> Thank you I looked at the web page and it looks complicated...I will
> read the instruction page carefully over the next few days...I have 3
> Linksys routers already so just need one more plus all the
> antenna's.....I do not have line of site from my front door but I think
> from the roof I will be able to see my friend's house. It will be great
> when we have inexpensive WiFi 70cm rigs to do this with! Guess I will
> save some $ for the project before I actually begin....73 Johnny KD5LWU
>
> Kipton Moravec wrote:
> >
> > The main thing is Line of Sight. WiFi does not go through trees.
> >
> > I used DD-WRT software in a Linksys or Buffalo WiFi Router. Check the
> > DD-WRT website to get a router that is capable of loading their SW. They
> > have different loads, you will be fine for this application with the
> > mini load.
> >
> > The way I would recommend would have 4 routers with directional
> > antennas.
> > At work you have a router (1) with a directional antenna pointing
> > towards your friend's house. At your friend's house have a router (2)
> > with a directional antenna pointed towards work. This is the first link.
> >
> > The second link is a router (3) with a directional antenna from your
> > friend's house pointing towards your house. And a fourth router (4) at
> > your house with a directional antenna pointing towards your friend's
> > house.
> >
> > DD-WRT can make the router act as a host (like a normal router) or as an
> > access point (like your computer) Make Router 1 and 3 Access points and
> > Routers 2 and 4 normal router functions.
> >
> > For that distance a 15 db antenna should work fine. With the wide 30
> > degree beam it should be easy to point. I would put them up with
> > horizontal polarity (to have less interference from others). And have
> > one link on channel 1 and the other on channel 6 to keep them from
> > interfering with each other.
> >
> > Since one router is an access point, it can plug into the routers WLAN

> > input and will be treated as the Internet source. Which is what you do
> > at your friend's house with the two routers. The DD-WRT also does NAT,
> > so your home network will be 192.168.1.XXX, The Access point at your
> > friend's house will translate to something else, 192.168.2.XXX, the
> > router could change it to a third range 192.268.3.XXX, and then the
> > access point at work will change it to a 4th network 194.168.4.XXX which
> > can be used for all the computers at work.
> >
> > Again the main thing is clear line of sight, will you be able to see the
> > antennas at work and at your house from your friend's house? How high
> > up will you have to go?
> >
> > Kip
> >
> > On Sun, 2007-10-21 at 16:40 -0600, Johnny KD5LWU wrote:
> > > Jerry Hi - can you outline the steps to use a second wireless
> router to
> > > make a repeater system? I live less than 3 miles from my work and have
> > > cable modem at home and dialup at work. I have a ham friend who lives
> > > exactly between the two where I can setup a second router to forward
> > the
> > > signal but have never done this so help would be appreciated. It would
> > > be nice to have faster Internet at work Thanks 73 Johnny KD5LWU
> > Cortez, CO
> >
> > >
> > --
> > Kipton Moravec KE5NGX
> > "Always do right; this will gratify some people and astonish the rest."
> > --Mark Twain
> >
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1088. Re: WIFI Card recommendation

Yahoo group: DAWG-HSMM
Date: 2007-10-24 19:13:22 UTC
From: Jerry Karlovich, KD5OM
Topic: 1074 Message: 1088

Kip,

I like skinning Kitty Cats. They taste like chicken.

Anyway... I got me another WRT54G Ver.2 and now I want to load the DD-(what ever it was) firmware on it and do some experiments. This weekend might not be good for we plan to go to the Waxahachi Festival on Saturday (it's a couples thing) and the rest of the time it is a DX Contest weekend. I just need about 6 more to claim my DXCC :) . We don't have another camping trip planned but I think Thanksgiving Weekend will be a good time to go camping. I would like to have it all debugged and working by that time.

See ya,

Jerry KD5OM
http://www.kd5om.com

--- In ntms-hsmm@yahoogroups.com, Kipton Moravec <kip@...> wrote:
>
> There are a lot of ways to skin this cat.
>
> At the Plano Balloon Festival the church had WiFi but we could not
> access it from the roof where our antenna pointing to the field was
> located. We were able to place another router where we could get
signal
> and ran a wire between them. It also changed the frequency as the
church
> was using channel 6 and we wanted to use channel 1 for the Balloon
> Festival.
>
> I was able to get the church directly on my laptop at the operations
> tent, which was 2500 feet from the church because the church was
clear
> line of sight and I had a 15 db gain antenna on the church pointing
my
> way.
>
> The first thing I would try is to get a router that is compatible
with
> DD-WRT software and put it up in the air and run a Ethernet cable to
> your laptop. You could set it on the top of your RV or hook it to an
> antenna mast. The higher up the better. That will probably do it.
>
> The second option would be to add an external directional antenna
to the

> router. A 15 db yagi is around $30, and there are sometimes deals on
> other ones. Look at http://www.hyperlinktech.com and
> http://pacwireless.com
>
> A third option is to do exactly what we did at the church, get two
> routers put one high up and the other to broadcast to you on another
> frequency so you do not have to have a wire to your laptop. (Like a
> repeater.)
>
> If you want to borrow one or two routers to play with let me know.
>
> Kip
>
> On Thu, 2007-10-11 at 14:44 +0000, Jerry Karlovich, KD5OM wrote:
> > We were at Inks Lake SP this last weekend and was hoping to take
> > advantage of their free wifi. My ever so wonderful HP card didn't
do so
> > well. I almost had to be within a hundred feet of the source to
> > connect. Where as the campers next to me were able to connect
from
> > their campsite. (She was using a MAC notebook). Are the any
reviews on
> > PCI wifi cards for notebook computers listing their ablility to
hear a
> > distant wifi sig. Or can I have some recommendations for a really
good
> > PCI card for my notebook. I have a Dell running XP sp2.
> >
> > While at the park and just for a few minutes I was picking up a
bridge.
> > What would be involved with a bridge up on my 18' push-up
painter's
> > pole I normally have my Buddie-pole antenna on?
> >
> > JK
> > www.kd5om.com
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> >
> > Yahoo! Groups Links
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> --
> Kipton Moravec KE5NGX
> "Always do right; this will gratify some people and astonish the
rest."
> --Mark Twain

>

1089. Wi-Fi with 10 dbi Directional Antenna

Yahoo group: DAWG-HSMM
Date: 2007-10-25 22:32:12 UTC
From: Kilgore
Topic: 1089 Message: 1089

Check out this wi-Fi client with antenna attached.
http://www.getyourtech.com/index.asp?PageAction=VIEWPROD&ProdID=203512

FCC approval:
https://gullfoss2.fcc.gov/oetcf/eas/reports/ViewExhibitReport.cfm?mode=Exhibits&RequestTimeout=500&calledFromFrame=N&application_id=955040&fcc_id='UILHFWFG10'

https://gullfoss2.fcc.gov/prod/oet/forms/blobs/retrieve.cgi?attachment_id=699663&native_or_pdf=pdf

https://gullfoss2.fcc.gov/prod/oet/forms/blobs/retrieve.cgi?attachment_id=699681&native_or_pdf=pdf

Doug KD5OUG

1090. New Member

Yahoo group: DAWG-HSMM
Date: 2007-10-28 06:15:40 UTC
From: Kilgore
Topic: 1090 Message: 1090

Welcome to the group, Arnold.

Please let us know what you are doing.

Doug Kilgore KD5OUG
List Owner

Yahoo! Groups Notification wrote:

>Hello,
>Comment from user:
>hello- we have a worldwide group that is very interested in using HSMM
>for disaster relief operations. Please call if you have any questions.
>Thanks... Arnold KC2DN, Cell 321-436-3844
>
>
>

1091. Re: New Member

Yahoo group: DAWG-HSMM
Date: 2007-10-29 02:50:36 UTC
From: adejesus2000
Topic: 1090 Message: 1091

Hello Doug and the Group

I'm an LMR tech at Kennedy Space Center in Florida and your fellow Ham. We have a church-based Ham group that responds to disasters to make sure that everyone is OK and accounted for. Then we set up disaster relief centers to handle whatever is needed.

HSMM seems to be the cheapest and most efficient way to connect these centers to the outside world in the absence of power and phone lines.

I'm looking forward to learning about your research in this field.

Best Regards
Arnold
Orlando, Florida
KC2DN

1092. Re: New Member

Yahoo group: DAWG-HSMM
Date: 2007-10-29 20:02:37 UTC
From: rddunnin@rockwellcollins.com
Topic: 1090 Message: 1092

Check out John Beadles' (N5OOM) excellent website at:
http://www.n5oom.org/hsmm/index.htm

You can see the equipment I have built in the photos section under KC5QHH.

RD

[Non-text portions of this message have been removed]

1093. RE: [ntms-hsmm] Re: New Member

Yahoo group: DAWG-HSMM
Date: 2007-10-29 20:12:59 UTC
From: John Champa
Topic: 1090 Message: 1093

Randy,

I have been asked to write the HSMM section in the new League publication VHF Digital Radio Handbook.
If you don't mind, I would like to use some of your material in the section...credit given, of course.

Vy 73,
John, K8OCL

To: ntms-hsmm@yahoogroups.comFrom: rddunnin@...: Mon, 29 Oct 2007 15:02:37 -0500Subject: [ntms-hsmm] Re: New Member

Check out John Beadles' (N5OOM) excellent website at:
http://www.n5oom.org/hsmm/index.htmYou can see the equipment I have built in the photos section under KC5QHH.RD[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1094. Article on HSMM

Yahoo group: DAWG-HSMM
Date: 2007-10-30 13:47:47 UTC
From: rddunnin@rockwellcollins.com
Topic: 1094 Message: 1094

Hello John,

No problem. You can borrow my equipment and, given sufficient lead time, I can give you a description of each piece of gear. I also have practical experience with the Comet 2.4 Gig spring base mobile antenna. Works like a hose. We use HSMM at the GARC field day site to run FD-Network software which creates a wireless client server based contact logging system. We put a laptop at each radio and have the server in my trailer. The modified LinkSys WRT-54G access point router is in a Demarc Tech NMEA-4 box up 15 feet on a power generating windmill tower. We use 2, 8 dB antennas with a 12 degree down-look to cover the 1000' FD site without blowing RF into surrounding neighborhoods. The unit uses PoE and all Ethernet connections are water proof using IEC IP67 rated harsh environment / waterproof connectors. PoE injection/dejection is accomplished by Demarc Tech voltage agnostic PoE injector/dejectors.

See:
http://www.bb-elec.com/bb-elec/literature/ENxxHarshDutyCables-0903.pdf

I am also experimenting with Amphanol's new harsh environment connectors.

See: http://www.mouser.com/catalog/631/1037.pdf

For field deployable HSMM, I am of the opinion that use of harsh environment connectors is a requirement, not a luxury.

73,

RD

[Non-text portions of this message have been removed]

1095. RE: [ntms-hsmm] Article on HSMM

Yahoo group: DAWG-HSMM
Date: 2007-10-30 13:51:33 UTC
From: John Champa
Topic: 1094 Message: 1095

Cool! Thanks. I would like to take a few photos of YOU and the gear, too.

My section must be submitted in December, so it's a short fuse.

To: ntms-hsmm@yahoogroups.comFrom: rddunnin@...: Tue, 30 Oct 2007 08:47:47 -0500Subject: [ntms-hsmm] Article on HSMM

Hello John,No problem. You can borrow my equipment and, given sufficient lead time, I can give you a description of each piece of gear. I also have practical experience with the Comet 2.4 Gig spring base mobile antenna. Works like a hose. We use HSMM at the GARC field day site to run FD-Network software which creates a wireless client server based contact logging system. We put a laptop at each radio and have the server in my trailer. The modified LinkSys WRT-54G access point router is in a Demarc Tech NMEA-4 box up 15 feet on a power generating windmill tower. We use 2, 8 dB antennas with a 12 degree down-look to cover the 1000' FD site without blowing RF into surrounding neighborhoods. The unit uses PoE and all Ethernet connections are water proof using IEC IP67 rated harsh environment / waterproof connectors. PoE injection/dejection is accomplished by Demarc Tech voltage agnostic PoE injector/dejectors.See: http://www.bb-elec.com/bb-elec/literature/ENxxHarshDutyCables-0903.pdfI am also experimenting with Amphanol's new harsh environment connectors.See: http://www.mouser.com/catalog/631/1037.pdfFor field deployable HSMM, I am of the opinion that use of harsh environment connectors is a requirement, not a luxury.73,RD[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1096. NCTECH program for Saturday

Yahoo group: DAWG-HSMM
Date: 2007-11-07 02:30:28 UTC
From: David Johnson
Topic: 1096 Message: 1096

There will be a TBM Communicator information table set up for NCTECH Hamfest this Saturday. I'll be on site for the ham-fest. Look for me there. There wil be some good forums and presentations.

Keith Pugh W5IU for AmSat is presenting and will be able to speak to such topics as the Phase IV satellites designed for Disaster Relief Amateur Radio operation and many details on getting started with satellites.

Tarrant County RACES will be show-casing the new communications van purchased with grant money.

ARRL North Texas Section Chairman Tom Blackwell N5GAR will be speaking and will have an ARRL table there.

Jim McLeland will be presenting the latest in D-STAR digital voice operations.

There will be several vendors peddling communications equipment.

There will be a VE Exam Session by the W5SJZ Lockheed Club Team.

Details and directions at http://www.wc5c.org

73

David KB5YLG

1097. Section Managers endorse Ed McGinley

Yahoo group: DAWG-HSMM
Date: 2007-11-12 19:40:04 UTC
From: David Johnson
Topic: 1097 Message: 1097

North Texas and South Texas managers endorse Ed McGinley...

http://pages.sbcglobal.net/tom.blackwell/2007-arrl-election.htm

1098. Re: [ntms-hsmm] Section Managers endorse Ed McGinley

Yahoo group: DAWG-HSMM
Date: 2007-11-13 18:10:20 UTC
From: Walt DuBose
Topic: 1097 Message: 1098

I hope that you will not do yourself a dis-service for following the advice. I know the candidate for vice-director and he can not come close to doing the job that the current vide-director is doing. As for W5TEM, again I can't see his qualifications for being all that great especially against the current director who has worked so hard to get the ARRL Staff and Executive Council to start listening to the directors and members.

We are fortunate to have a director on the Executive council which not new/junior director is going to be appointed to and in fact ARRL members need to understand that it is really the Executive Council that runs the ARRL NOT the directors per se. The Council guides the Staff and if the staff fails miserably, then it is the Executuve Council that will replace them. We have seen the council's work already this year and you can expect to see more actions next year as long as the majority of the council remails the same. If we elect a new director, the council will shift back to the old school of ARRL thinking.

I di understand that the NTX manager is cross ways with the other managers and current director and vice-director but I think only because he want's the division director's position and needs a lack luster director in place so he can run as director.

You seen the same thing with ARRL directors as you see in government...most of the current directors are very liberal and a few are conservative but others are moving that way or at least seem to be, You need to ask individuals running for director/vice-director how they would change the League and the league's way of thinking. Just having ideas means nothing unless you have a majority of the Executive Council on you side...a new director won't.

The League is more political than the federal or any state or local government and Tom knows this and its his reason for proposing "his" candidates.

David Johnson wrote:
> North Texas and South Texas managers endorse Ed McGinley...
>
> http://pages.sbcglobal.net/tom.blackwell/2007-arrl-election.htm
>
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> Yahoo! Groups Links
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1099. Re: [ntms-hsmm] Section Managers endorse Ed McGinley

Yahoo group: DAWG-HSMM
Date: 2007-11-13 21:34:17 UTC
From: Walt DuBose
Topic: 1097 Message: 1099

Coy Day and David Woolweaver were very strong supporters of the HSMM WG and still support the several good ideas that came from that effort.

Walt/K5YFW

David Johnson wrote:
> North Texas and South Texas managers endorse Ed McGinley...
>
> http://pages.sbcglobal.net/tom.blackwell/2007-arrl-election.htm
>
>
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>
> Yahoo! Groups Links
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1100. Re: [ntms-hsmm] Section Managers endorse Ed McGinley

Yahoo group: DAWG-HSMM
Date: 2007-11-13 21:38:33 UTC
From: TOM BLACKWELL
Topic: 1097 Message: 1100

We now have a notice that the D-STAR grant that Ed McGinley, W5ETM, applied for was approved. It is $99,000. I think he has shown a continuing ability to 'get things done.'

Walt DuBose wrote:
> I hope that you will not do yourself a dis-service for following the advice. I
> know the candidate for vice-director and he can not come close to doing the job
> that the current vide-director is doing. As for W5TEM, again I can't see his
> qualifications for being all that great especially against the current director
> who has worked so hard to get the ARRL Staff and Executive Council to start
> listening to the directors and members.

But Walt, I've had a lot of success getting the ARRL Staff to listen to me.

> We are fortunate to have a director on the Executive council which not
> new/junior director is going to be appointed to and in fact ARRL members need to
> understand that it is really the Executive Council that runs the ARRL NOT the
> directors per se. The Council guides the Staff and if the staff fails
> miserably, then it is the Executuve Council that will replace them. We have
> seen the council's work already this year and you can expect to see more actions
> next year as long as the majority of the council remails the same. If we elect
> a new director, the council will shift back to the old school of ARRL thinking.
>
> I di understand that the NTX manager is cross ways with the other managers and
> current director and vice-director

That suggests that I am "cross ways" with the South Texas Section Manager. That is not true. We have worked together closely on important matters. He and I have endorsed the election of Ed McGinley and Dr. John Teer. It's time for a change. Members have not had a contested election for Director and Vice Director with ballots since 1998. The others have had their opportunity to perform. There are reasons why we can not be satisfied with their performance that would extend another 3 years - - to January, 2011. There are issues identified here that have not been resolved:

http://pages.sbcglobal.net/tom.blackwell/2007-arrl-election.htm

> but I think only because he want's the
> division director's position and needs a lack luster director in place so he can
> run as director.
>

I can't agree with that, either.

Yes, there were some people who asked me to run for Director this time, having seen what they have seen. But I declined to run. I had other

important commitments on my calendar. With a qualified candidate like
Ed willing to run, there was no reason for me to run. The $99,000 grant
for D-STAR equipment, alone, says a lot about his qualifications - - and
ability to 'get things done.' When a competent person serves as
Director, I do not have to run for the office, or be concerned about the
future of the ARRL. I can be satisfied that the person in this office
is a 'representative' not a 'commander.'

> You seen the same thing with ARRL directors as you see in government...most of
> the current directors are very liberal and a few are conservative but others are
> moving that way or at least seem to be, You need to ask individuals running for
> director/vice-director how they would change the League and the league's way of
> thinking. Just having ideas means nothing unless you have a majority of the
> Executive Council on you side...a new director won't.
>
> The League is more political than the federal or any state or local government
> and Tom knows this and its his reason for proposing "his" candidates.

"My" candidates? They are the candidates of a lot of ARRL members.
I've heard from them.

>
> David Johnson wrote:
>
>> North Texas and South Texas managers endorse Ed McGinley...
>>
>> http://pages.sbcglobal.net/tom.blackwell/2007-arrl-election.htm
>>
>>
>>

--

Regards, TOM BLACKWELL, N5GAR, PO Box 25403, Dallas, Texas 75225
http://pages.sbcglobal.net/tom.blackwell/2007-arrl-election.htm

1101. It's Black Friday at 3am, do you know where your wife is?

Yahoo group: DAWG-HSMM
Date: 2007-11-13 23:22:04 UTC
From: Jerry Karlovich, KD5OM
Topic: 1101 Message: 1101

Black Friday is the day after Thanksgiving. My son just showed me a web site that has ads for special Door-Buster sales. Look at this:
http://tinyurl.com/38w932
There will only be 15 per store. The store opens at 5am. Best Buy employees will be passing out tickets for items for those standing in line at 3am, (yawn!). But a PC for $199.97 with a 17 inch flat panel widescreen monitor, 1GB of ram and a 160gb hard drive? Shucks! The monitor alone is worth 200 bucks! Let's brew a pot of coffee and take turns standing in line.
Check out other ads at: http://bfads.net

Jerry K.
http://www.kd5om.com

1102. Blackwell's Endorsement Consuming Too Much O2 on this List?

Yahoo group: DAWG-HSMM
Date: 2007-11-14 14:55:29 UTC
From: rddunnin@rockwellcollins.com
Topic: 1102 Message: 1102

Come, Come, Tom! Let's not snipe the HSMM y-group for pet candidate puffery.
I would humbly suggest you consider starting an ARRL Elections group for those
who wish to mix it up and duke it out on that topic.

IMHO, an ARRL election flame war is not really an HSMM topic and threatens to
consume way too much oxygen in this group.

Now please don't take this wrong but I must ask: when was the last time you posted
any HSMM related stuff on this group anyway? Inquiring minds want to know whehther
this is the beginning of a welcome and fruitful commitment to HSMM or just a base
move to hijack some of this group's bandwidth for other purposes.

RD - KC5QHH

[Non-text portions of this message have been removed]

1103. Re: [ntms-hsmm] Blackwell's Endorsement ...

Yahoo group: DAWG-HSMM
Date: 2007-11-14 17:39:00 UTC
From: TOM BLACKWELL
Topic: 1102 Message: 1103

Randy,

I joined this Yahoogroup in in 2004, on hearing presentations at club meetings and conventions about HSMM. I had some ideas of my own about the way a HSMM network should work, and wanted to discuss these with others. I also wanted to watch the progress that others were having. I've done that and I remain interested in it. I hope that answers your question.

Once every 3 years there is an ARRL election for Director and Vice Director. That's going on now. I prepared my comments about it, and made them available on ANOTHER Internet server. Another member of this HSMM Yahoogroup posted a link to that other server here. I didn't ask him to do this, and did not know he was going to post it here. I should not be surprised that someone would do that because of the importance of the election for people who share these interests. Then Walt DuBose posted a comment about me, and all of this, and I replied to it. I feel there are things that Walt does not understand. It seems he has received information about me from the wrong people. He posted something here on this HSMM Yahoogroup about me making plans to run for ARRL Director. If I had wanted to run for ARRL Director I would have filed the paperwork and my name would be on the ballot with the others. So I responded. I don't want people to believe things about me that are not correct, and I hope that ends the matter.

I think you will see continued ARRL support for HSMM, and maybe expanded support, if W5ETM and AK5Z are elected. I think Walt should go discuss this with his Section Manager in South Texas, Ray Taylor, N5NAV. Ray and I share the same opinions about this.

rddunnin@... wrote:
> Come, Come, Tom! Let's not snipe the HSMM y-group for pet candidate
> puffery.
> I would humbly suggest you consider starting an ARRL Elections group for
> those
> who wish to mix it up and duke it out on that topic.
>
> IMHO, an ARRL election flame war is not really an HSMM topic and threatens
> to
> consume way too much oxygen in this group.
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> you posted
> any HSMM related stuff on this group anyway? Inquiring minds want to know
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> this is the beginning of a welcome and fruitful commitment to HSMM or just

> a base
> move to hijack some of this group's bandwidth for other purposes.
>
> RD - KC5QHH
>

--

Regards, TOM BLACKWELL, PO Box 25403, Dallas, Texas 75225

1104. Re: Blackwell's Endorsement ...

Yahoo group: DAWG-HSMM
Date: 2007-11-15 14:46:11 UTC
From: Randall Dunning
Topic: 1102 Message: 1104

Tom,

I thought I owed you an apology and went looking for any evidence that your claims below might be true. Using the YahooGroup search tool on the search string: "Blackwell" I found the following posts of yours with the first post being in Q4 of 2005

1. 31-Oct-2005 - Request for Ham Com facility diagram.
2. 17-Nov-2005 - Comment on New York Wireless LAN Law enforcement
3. 9-May-2006 - Called attention to an ad in QST
4. 13-Aug-2006 - Called for others to do work and write an article or book chapter.
5. 13-Nov-2007 - Defense of endorsement.
6. 14-Nov-2007 - Defense claiming HSMM activity

Strange, I found no postings sharing your thoughts with the group on how HSSM networks should work. I also could find no "ideas of your own" that the group could profit from as you claim in your 14 Nov defense. I guess I'll stand by my original post.

Regards,

RD

--- In ntms-hsmm@yahoogroups.com, TOM BLACKWELL <decision@...> wrote:
>
> Randy,
>
> I joined this Yahoogroup in in 2004, on hearing presentations at club
> meetings and conventions about HSMM. I had some ideas of my own about
> the way a HSMM network should work, and wanted to discuss these with
> others. I also wanted to watch the progress that others were having.
> I've done that and I remain interested in it. I hope that answers your
> question.

> Regards, TOM BLACKWELL, PO Box 25403, Dallas, Texas 75225
>

1105. Comments by Randy and Walt

Yahoo group: DAWG-HSMM
Date: 2007-11-15 23:41:49 UTC
From: TOM BLACKWELL
Topic: 1102 Message: 1105

Randy,

The ideas I had about HSMM were discussed with various people privately at meetings and hamfests several years ago. I didn't post them here. So if you are looking for "evidence" you'll have to look further than the old messages that are archived on this Yahoogroup.

Sometimes ideas are just that and I wanted to see if anyone else was working in the same direction, to get a feel for where this stood technically and to see if what I wanted to suggest was practical.

It seems the commercial sector is well ahead of amateurs with these developments, as may be the case with the city's wireless laptop you carry around in Garland. I see that with some other technologies, too. Sometimes thinking about these things comes from 'outside the box.' While that never hurts anybody, I wanted to be in sync with others who have been involved for some time. So while I didn't post these things on this Yahoogroup they were discussed elsewhere.

As for Walt's comments, Ed Hare, the ARRL Laboratory Manager, advises me that the HSMM group is "no longer functioning." I think HSMM deserves this kind of support from the ARRL, and I'd like to see this change.

Randall Dunning wrote:
> Tom,
>
> I thought I owed you an apology and went looking for any evidence
> that your claims below might be true. Using the YahooGroup search
> tool on the search string: "Blackwell" I found the following posts
> of yours with the first post being in Q4 of 2005
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>> I've done that and I remain interested in it. I hope that answers
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>> question.
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>
>
>> Regards, TOM BLACKWELL, PO Box 25403, Dallas, Texas
>>
> 75225

--

Regards, TOM BLACKWELL, PO Box 25403, Dallas, Texas 75225

1106. RE: [ntms-hsmm] Comments by Randy and Walt

Yahoo group: DAWG-HSMM
Date: 2007-11-16 00:52:13 UTC
From: John Champa
Topic: 1102 Message: 1106

Tom, Randy,

Points well taken. Thank you both.

Let's get on with the focused HSMM experimentation that this fine reflector
was specifically designed for in the first place! It may be the only ACTIVE one remainingin
the world! Let's protect it dearly, even though our mother organization (ARRL) may not be
ready for it at this time.

However, there are strong signs of progress! The League is preparing to publish
a sister publication to the HF Digital handbook. It's called the VHF Digital Handbook,
and guess what? It has an entire section on HSMM! Do you think that would have
happened just a few short years ago, if not for the efforts of you all? No way, Jose!

You all demonstrated that Radio Amateurs could make a major contribution to the state
of the radio technology in HSMM radio. My heart felt congratulations!

But this struggle is the price we pay for being on the bleeding edge. Trust me, please!
Someday folks will look back on all of you as HSMM radio pioneers! Today we just need
to cooperate and move forward.

Vy 73,
John Champa, K8OCL
Former Chairman
ARRL HSMM Working Group

To: ntms-hsmm@yahoogroups.com
From: decision@...
Date: Thu, 15 Nov 2007 17:41:49 -0600
Subject: [ntms-hsmm] Comments by Randy and Walt

Randy,

The ideas I had about HSMM were discussed with various people privately

at meetings and hamfests several years ago. I didn't post them here.

So if you are looking for "evidence" you'll have to look further than

the old messages that are archived on this Yahoogroup.

Sometimes ideas are just that and I wanted to see if anyone else was

working in the same direction, to get a feel for where this stood

technically and to see if what I wanted to suggest was practical.

It seems the commercial sector is well ahead of amateurs with these

developments, as may be the case with the city's wireless laptop you carry around in Garland. I see that with some other technologies, too. Sometimes thinking about these things comes from 'outside the box.' While that never hurts anybody, I wanted to be in sync with others who have been involved for some time. So while I didn't post these things on this Yahoogroup they were discussed elsewhere.

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>> Regards, TOM BLACKWELL, PO Box 25403, Dallas, Texas

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> 75225

--

Regards, TOM BLACKWELL, PO Box 25403, Dallas, Texas 75225

[Non-text portions of this message have been removed]

1107. RE: [ntms-hsmm] Comments by Randy and Walt

Yahoo group: DAWG-HSMM
Date: 2007-11-16 00:52:56 UTC
From: John Champa
Topic: 1102 Message: 1107

Tom, Randy,

Points well taken. Thank you both.

Let's get on with the focused HSMM experimentation that this fine reflector was specifically designed for in the first place! It may be the only ACTIVE one remainingin the world! Let's protect it dearly, even though our mother organization (ARRL) may not be ready for it at this time.

However, there are strong signs of progress! The League is preparing to publish a sister publication to the HF Digital handbook. It's called the VHF Digital Handbook, and guess what? It has an entire section on HSMM! Do you think that would have happened just a few short years ago, if not for the efforts of you all? No way, Jose!

You all demonstrated that Radio Amateurs could make a major contribution to the state of the radio technology in HSMM radio. My heart felt congratulations!

But this struggle is the price we pay for being on the bleeding edge. Trust me, please! Someday folks will look back on all of you as HSMM radio pioneers! Today we just need to cooperate and move forward.

Vy 73,
John Champa, K8OCL
Former Chairman
ARRL HSMM Working Group

[Non-text portions of this message have been removed]

1108. RE: [ntms-hsmm] Comments by Randy and Walt

Yahoo group: DAWG-HSMM
Date: 2007-11-16 00:52:26 UTC
From: John Champa
Topic: 1102 Message: 1108

Tom, Randy,

Points well taken. Thank you both.

Let's get on with the focused HSMM experimentation that this fine reflector
was specifically designed for in the first place! It may be the only ACTIVE one remainingin
the world! Let's protect it dearly, even though our mother organization (ARRL) may not be
ready for it at this time.

However, there are strong signs of progress! The League is preparing to publish
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Vy 73,
John Champa, K8OCL
Former Chairman
ARRL HSMM Working Group

To: ntms-hsmm@yahoogroups.com
From: decision@...
Date: Thu, 15 Nov 2007 17:41:49 -0600
Subject: [ntms-hsmm] Comments by Randy and Walt

Randy,

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>> Regards, TOM BLACKWELL, PO Box 25403, Dallas, Texas

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> 75225

--

Regards, TOM BLACKWELL, PO Box 25403, Dallas, Texas 75225

[Non-text portions of this message have been removed]

1109. Streaming Video Solution

Yahoo group: DAWG-HSMM
Date: 2007-11-16 01:00:11 UTC
From: John Barrett
Topic: 1102 Message: 1109

I have been tasked with setting up a video feed from a tower mounted surveillance camera. Analog ATV has been ruled out, and I'm currently looking at a video capture card feeding a Windows Media Server system to provide streaming video to the consumer over WiFi.

My only problem is that Windows 2003 Server is a bit heavy for the P3/850+256m that I've got available. does anyone know of a lighter weight video server/viewer combination for windows that might make my life a little easier ?? Open Source/Freeware is a must for this one !

[Non-text portions of this message have been removed]

1110. Re: [ntms-hsmm] Streaming Video Solution

Yahoo group: DAWG-HSMM
Date: 2007-11-16 01:09:59 UTC
From: David McAnally
Topic: 1102 Message: 1110

On Nov 15, 2007 7:00 PM, John Barrett <ke5crp1@...> wrote:

> I have been tasked with setting up a video feed from a tower mounted
> surveillance camera. Analog ATV has been ruled out, and I'm currently
> looking at a video capture card feeding a Windows Media Server system to
> provide streaming video to the consumer over WiFi.
>
>
>
> My only problem is that Windows 2003 Server is a bit heavy for the
> P3/850+256m that I've got available. does anyone know of a lighter weight
> video server/viewer combination for windows that might make my life a
> little
> easier ?? Open Source/Freeware is a must for this one !
>
>
From MS, Windows Media Encoder is free. <
http://www.microsoft.com/windows/windowsmedia/forpros/encoder/default.mspx>

There are several packages from open source projects. The VLC client I use
appears to include a streaming capability. <http://www.videolan.org/>

--
Regards,
David McAnally, WD5M

[Non-text portions of this message have been removed]

1111. RE: [ntms-hsmm] Streaming Video Solution

Yahoo group: DAWG-HSMM
Date: 2007-11-16 01:29:33 UTC
From: John Champa
Topic: 1102 Message: 1111

What about simply using MS Netmeeting for your ADV (Amateur Digital Video)?

To: ntms-hsmm@yahoogroups.com
From: ke5crp1@...
Date: Thu, 15 Nov 2007 19:00:11 -0600
Subject: [ntms-hsmm] Streaming Video Solution

I have been tasked with setting up a video feed from a tower mounted

surveillance camera. Analog ATV has been ruled out, and I'm currently

looking at a video capture card feeding a Windows Media Server system to

provide streaming video to the consumer over WiFi.

My only problem is that Windows 2003 Server is a bit heavy for the

P3/850+256m that I've got available. does anyone know of a lighter weight

video server/viewer combination for windows that might make my life a little

easier ?? Open Source/Freeware is a must for this one !

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1112. RE: [ntms-hsmm] Streaming Video Solution

Yahoo group: DAWG-HSMM
Date: 2007-11-16 01:31:02 UTC
From: John Champa
Topic: 1102 Message: 1112

What about simply using MS Netmeeting for your ADV (Amateur Digital Video)?

To: ntms-hsmm@yahoogroups.com
From: ke5crp1@...
Date: Thu, 15 Nov 2007 19:00:11 -0600
Subject: [ntms-hsmm] Streaming Video Solution

I have been tasked with setting up a video feed from a tower mounted

surveillance camera. Analog ATV has been ruled out, and I'm currently

looking at a video capture card feeding a Windows Media Server system to

provide streaming video to the consumer over WiFi.

My only problem is that Windows 2003 Server is a bit heavy for the

P3/850+256m that I've got available. does anyone know of a lighter weight

video server/viewer combination for windows that might make my life a little

easier ?? Open Source/Freeware is a must for this one !

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1113. RE: [ntms-hsmm] Streaming Video Solution

Yahoo group: DAWG-HSMM
Date: 2007-11-16 01:29:59 UTC
From: John Champa
Topic: 1102 Message: 1113

What about simply using MS Netmeeting for your ADV (Amateur Digital Video)?

To: ntms-hsmm@yahoogroups.com
From: ke5crp1@...
Date: Thu, 15 Nov 2007 19:00:11 -0600
Subject: [ntms-hsmm] Streaming Video Solution

I have been tasked with setting up a video feed from a tower mounted

surveillance camera. Analog ATV has been ruled out, and I'm currently

looking at a video capture card feeding a Windows Media Server system to

provide streaming video to the consumer over WiFi.

My only problem is that Windows 2003 Server is a bit heavy for the

P3/850+256m that I've got available. does anyone know of a lighter weight

video server/viewer combination for windows that might make my life a little

easier ?? Open Source/Freeware is a must for this one !

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1114. RE: [ntms-hsmm] Streaming Video Solution

Yahoo group: DAWG-HSMM
Date: 2007-11-16 01:29:55 UTC
From: John Champa
Topic: 1102 Message: 1114

What about simply using MS Netmeeting for your ADV (Amateur Digital Video)?

To: ntms-hsmm@yahoogroups.com
From: ke5crp1@...
Date: Thu, 15 Nov 2007 19:00:11 -0600
Subject: [ntms-hsmm] Streaming Video Solution

I have been tasked with setting up a video feed from a tower mounted

surveillance camera. Analog ATV has been ruled out, and I'm currently

looking at a video capture card feeding a Windows Media Server system to

provide streaming video to the consumer over WiFi.

My only problem is that Windows 2003 Server is a bit heavy for the

P3/850+256m that I've got available. does anyone know of a lighter weight

video server/viewer combination for windows that might make my life a little

easier ?? Open Source/Freeware is a must for this one !

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1115. RE: [ntms-hsmm] Streaming Video Solution

Yahoo group: DAWG-HSMM
Date: 2007-11-16 01:38:14 UTC
From: John Barrett
Topic: 1102 Message: 1115

It was my understanding that WME required WMS to deliver the stream to consumers.. the encoder alone isn't enough.. do you have details on setting up WME to stream directly to consumers ??

And to answer John Champa: I want to support multiple consumers.. Netmeeting would be single consumer only.

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of David McAnally
Sent: Thursday, November 15, 2007 7:10 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Streaming Video Solution

On Nov 15, 2007 7:00 PM, John Barrett <ke5crp1@verizon.
<mailto:ke5crp1%40verizon.net> net> wrote:

> I have been tasked with setting up a video feed from a tower mounted
> surveillance camera. Analog ATV has been ruled out, and I'm currently
> looking at a video capture card feeding a Windows Media Server system to
> provide streaming video to the consumer over WiFi.
>
>
>
> My only problem is that Windows 2003 Server is a bit heavy for the
> P3/850+256m that I've got available. does anyone know of a lighter weight
> video server/viewer combination for windows that might make my life a
> little
> easier ?? Open Source/Freeware is a must for this one !
>
>
From MS, Windows Media Encoder is free. <
http://www.microsof
<http://www.microsoft.com/windows/windowsmedia/forpros/encoder/default.mspx>
t.com/windows/windowsmedia/forpros/encoder/default.mspx>

There are several packages from open source projects. The VLC client I use appears to include a streaming capability. <http://www.videolan
<http://www.videolan.org/> .org/>

--
Regards,
David McAnally, WD5M

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1116. Re: [ntms-hsmm] Streaming Video Solution

Yahoo group: DAWG-HSMM
Date: 2007-11-16 03:37:31 UTC
From: Johnny KD5LWU
Topic: 1102 Message: 1116

I use Unreal server and player for my remoter Internet receiver and it has a small foot print and works without flaw. It does both video and audio. http://www.umediaserver.net/download.html 73 Johnny KD5LWU

John Barrett wrote:
>
> I have been tasked with setting up a video feed from a tower mounted
> surveillance camera. Analog ATV has been ruled out, and I'm currently
> looking at a video capture card feeding a Windows Media Server system to
> provide streaming video to the consumer over WiFi.
>
> My only problem is that Windows 2003 Server is a bit heavy for the
> P3/850+256m that I've got available. does anyone know of a lighter weight
> video server/viewer combination for windows that might make my life a
> little
> easier ?? Open Source/Freeware is a must for this one !
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

1117. Re: [ntms-hsmm] Streaming Video Solution

Yahoo group: DAWG-HSMM
Date: 2007-11-16 13:03:55 UTC
From: David McAnally
Topic: 1102 Message: 1117

On Nov 15, 2007 7:38 PM, John Barrett <ke5crp1@...> wrote:

> It was my understanding that WME required WMS to deliver the stream to
> consumers.. the encoder alone isn't enough.. do you have details on
> setting
> up WME to stream directly to consumers ??
>
>
>
> And to answer John Champa: I want to support multiple consumers..
> Netmeeting
> would be single consumer only.
>
>
>

WMS is not required unless you plan to server many consumers or feeds. In that case, your limiting issue will be bandwidth. Then you may need to subscribe to a commercial streaming service for the bandwith.

WME default connections limit is 5, but can be set up to support up to 50 client connections. There is a registry change to set the limit. I believe I found that in the WME help file. Obviously it takes a bigger machine and network bandwidth to support more connections.

I had originally used WME to stream some scanner audio with a screen capture of the scanner software displaying frequency info. I also experimented with streaming video, but that takes a lot more bandwidth. Right now I'm using Icecast and some special scanner and SimpleCast ($) software to stream my scanner audio with frequency info tags. This has been fairly stable.

There is a wizard in WME to set up the configuration. Experiment with different settings to find what works best. As I said, if you plan to access over the Internet, bandwidth will be the limiting factor, then next maybe PC resources.

Another option is to use software that periodically captures an image from the video stream, and save it on a web server for viewing. I have an old cheap webcam that included software with that capability.

--
Regards,
David McAnally, WD5M

[Non-text portions of this message have been removed]

1118. Re: Streaming Video Solution

Yahoo group: DAWG-HSMM
Date: 2007-11-16 14:20:29 UTC
From: rddunnin@rockwellcollins.com
Topic: 1102 Message: 1118

David,

What camera(s) are you using for your streaming video project?

73,

RD

[Non-text portions of this message have been removed]

1119. RE: [ntms-hsmm] Re: Streaming Video Solution

Yahoo group: DAWG-HSMM
Date: 2007-11-16 14:58:48 UTC
From: John Champa
Topic: 1102 Message: 1119

Good point, Randy. Even with highly compressed digital video ("TRASHED!", the ATVers would say....HI)
the codec is just like any other computer: Garbage in, garbage out. Of course there is a point of
diminished return, but using the cheapest webcam available might not be the best answer.

73,
John, K8OCL

To: ntms-hsmm@yahoogroups.comFrom: rddunnin@...: Fri, 16 Nov 2007 08:20:29 -0600Subject: [ntms-hsmm] Re: Streaming Video Solution

David,What camera(s) are you using for your streaming video project?73,RD[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1120. RE: [ntms-hsmm] Re: Streaming Video Solution

Yahoo group: DAWG-HSMM
Date: 2007-11-16 15:30:04 UTC
From: John Barrett
Topic: 1102 Message: 1120

5 consumers would work just fine :-) I'm going to be using a Panasonic PTZ surveillance camera mounted on a tower, feeding a video capture card (hopefully with onboard compression), and feeding a WiFi local network only. there will not be an internet connection.. so I have the full 54mbit 802.11g connection to play with. The only limiting factor is CPU speed.. I'm using a Celeron 850 with 256mb ram, so I'm likely to run that resource out before I run out of net :-) I'm planning to compress as little as possible, and hoping to offload the compression on the capture card. I had at one time an Osprey 210, but it has gone missing and I'm trying to scrounge a suitable PCI capture card now. Might luck into a CPU and memory upgrade while I'm at it, but that's iffy as the motherboard docs say 256mb is the max - I'm going to try a 512k stick once I get hands on one, but I'm not holding out any hope. I'm also not sure that the board will take a Celeron III upgrade, though it is 100mhz FSB capable.

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of John Champa
Sent: Friday, November 16, 2007 8:59 AM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Re: Streaming Video Solution

Good point, Randy. Even with highly compressed digital video ("TRASHED!", the ATVers would say....HI)
the codec is just like any other computer: Garbage in, garbage out. Of course there is a point of
diminished return, but using the cheapest webcam available might not be the best answer.

73,
John, K8OCL

To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.comFrom> ps.comFrom: rddunnin@rockwellco <mailto:rddunnin%40rockwellcollins.comDate> llins.comDate: Fri, 16 Nov 2007 08:20:29 -0600Subject: [ntms-hsmm] Re: Streaming Video Solution

David,What camera(s) are you using for your streaming video project?73,RD[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1121. SAVETHE DATE! 2008 Wild Ride Bike Rally

Yahoo group: DAWG-HSMM
Date: 2007-11-16 17:37:15 UTC
From: Douglas Kilgore
Topic: 1121 Message: 1121

SAVE THE DATE! The 5th Annual Wild Ride Bike Rally is scheduled for Saturday, May 17, 2008. I attended the Kick-Off meeting for next year's rally. The planning committee was very appreciative of all ham radio operators do in providing communications for the rally. They were very enthusiastic about the video display showing digital photos from the route in real time.

Money is the reason for holding the rally. All proceeds benefit the Richardson Regional Cancer Center. The Richardson Medical Center Foundation is a charitable 501(c)(3) organization. Right now the committee is looking for corporate sponsors for monetary or in-kind donations. It is important to contact businesses right NOW while they are in the budget planning process for next year.

If you can suggest a business which might be persuaded to join the Fight Against Cancer by including the Wild Ride Bike rally in their charitable community giving, please reply to me with the company name and information for contacting the appropriate person. I will pass on the info on to planning committee for action.

Thank you for your help in the past years and mark May 17, 2008 on your calendar for helping next year. The attached flyer has been prepared for pubicity purposes.

Doug Kilgore KD5OUG
Wild Ride Communicatons Coordinator
Richardson, TX
kd5oug@...

[Non-text portions of this message have been removed]

1122. Oops- SAVETHE DATE! 2008 Wild Ride Bike Rally

Yahoo group: DAWG-HSMM
Date: 2007-11-16 18:05:11 UTC
From: Kilgore
Topic: 1121 Message: 1122

The 2008 Wild Ride flier is available at:

http://k5rwk.org/wr/2008_WildRide_flier.pdf

Doug Kilgore KD5OUG

1123. Building Wireless Community Networks (Available from ARRL)

Yahoo group: DAWG-HSMM
Date: 2007-11-20 21:56:42 UTC
From: Mark Thompson
Topic: 1123 Message: 1123

Building Wireless Community Networks

-- 2nd edition, by Rob Flickenger

This book is about getting people online using wireless network technology. The 802.11b standard (also known as WiFi) makes it possible to network towns, schools, neighborhoods, small business, and almost any kind of organization. All that's required is a willingness to cooperate and share resources. The first edition of this book helped thousands of people engage in community networking activities. This revised and expanded edition adds coverage on new network monitoring tools and techniques, regulations affecting wireless deployment, and IP network administration, including DNS and IP Tunneling.

182 pages. Second edition, © 2003, published by O'Reilly & Associates, Inc.
(ISBN: 0-596-00502-4) #9147 -- $29.95

_____
Be a better pen pal.
Text or chat with friends inside Yahoo! Mail. See how. http://overview.mail.yahoo.com/

[Non-text portions of this message have been removed]

1124. 802.11 Wireless Networks: The Definitive Guide (Available from ARRL)

Yahoo group: DAWG-HSMM
Date: 2007-11-20 21:57:12 UTC
From: Mark Thompson
Topic: 1124 Message: 1124

802.11 Wireless Networks: The Definitive Guide
-- by Matthew S. Gast

Creating and administering wireless networks.

As we all know by now, wireless networks offer many advantages over fixed (or wired) networks. Foremost on that list is mobility, since going wireless frees you from the tether of an Ethernet cable at a desk. But that's just the tip of the cable-free iceberg. Wireless networks are also more flexible, faster and easier for you to use, and more affordable to deploy and maintain.

The de facto standard for wireless networking is the 802.11 protocol, which includes Wi-Fi (the wireless standard known as 802.11b) and its faster cousin, 802.11g. With easy-to-install 802.11 network hardware available everywhere you turn, the choice seems simple, and many people dive into wireless computing with less thought and planning than they'd give to a wired network. But it's wise to be familiar with both the capabilities and risks associated with the 802.11 protocols. And 802.11 Wireless Networks: The Definitive Guide, 2nd Edition is the perfect place to start.

This updated edition covers everything you'll ever need to know about wireless technology. Designed with the system administrator or serious home user in mind, it's a no-nonsense guide for setting up 802.11 on Windows and Linux. Among the wide range of topics covered are discussions on:
deployment considerations
network monitoring and performance tuning
wireless security issues
how to use and select access points
network monitoring essentials
wireless card configuration
security issues unique to wireless networks

With wireless technology, the advantages to its users are indeed plentiful. Companies no longer have to deal with the hassle and expense of wiring buildings, and households with several computers can avoid fights over who's online. And now, with 802.11 Wireless Networks: The Definitive Guide, 2nd Edition, you can integrate wireless technology into your current infrastructure with the utmost confidence.

Also available: Building Wireless Community Networks

654 pages. 2nd edition, © 2005, published by O'Reilly & Associates, Inc. (ISBN: 0-596-10052-3) #9715 -- $44.95

Never miss a thing. Make Yahoo your home page.
http://www.yahoo.com/r/hs

[Non-text portions of this message have been removed]

1125. Microwave Projects 1 & 2 (AVailable from ARRL)

Yahoo group: DAWG-HSMM
Date: 2007-11-20 22:36:35 UTC
From: Mark Thompson
Topic: 1125 Message: 1125

Microwave Projects
-- Edited by Andy Barter, G8ATD
Aimed at those who are interested in building equipment for the Amateur Radio microwave bands. Packed full of ideas from around the world, this book covers the subject with a variety of projects. The book has many contributors who have a wealth of experience in this area and they have produced many projects, design ideas, complete designs and modifications of commercial equipment. This title provides much useful information as to what can be achieved effectively and economically. Covers useful theory of designing microwave circuits and test equipment for the projects. The book includes chapters covering:
Signal Sources
Transverters
Power Amplifiers
Test Equipment
Design
This is a must-have-book for all those who are already active on the microwave bands and those looking for interesting projects to embark on.
Also available: Microwave Projects 2
200 pages. © 2003, by Radio Society of Great Britain (RSGB)
(ISBN: 1-872309-90-9) #9022 -- $29.95

Microwave Projects 2
-- by Andy Barter, G8ATD
Following the huge success of Microwave Projects, this second volume brings you more innovative projects from around the world. If you are interested in building equipment for the Amateur Radio microwave bands, the designs in this book are sure to please you. Projects have been selected from international authors and all of the projects use modern techniques and current components. Details of how to obtain ready-made boards are included with most projects.
The book includes chapters covering:

Transverters and transmitters, including two new transverter designs for 23cm and 13cm plus an ATV transmitter for 3cm.
Receive amplifiers, including preamplifiers for 23cm, 13cm, 6cm and 3cm.
Power amplifiers, including a detailed design for a valve amplifier for 23cm plus solid state amplifiers for 23cm, 6cm, 3cm, 24GHz and 76GHz.
Filters, including detailed design technique for coaxial and stripline low pass filters.
Miscellaneous, including rare articles on using YIG oscillators and microwave absorbers.
If you are interested the microwave bands or Amateur Radio construction, Microwave Projects 2 provides great ideas and projects to satisfy everyone.
Also available: Microwave Projects
216 pages. © 2005, published by Radio Society of Great Britain (RSGB).
(ISBN: 1-905086-09-1) #9682 -- $29.95

Never miss a thing. Make Yahoo your home page.
http://www.yahoo.com/r/hs

[Non-text portions of this message have been removed]

1126. Fort Worth Hamfest Bulletin to All Area Communications Organizations

Yahoo group: DAWG-HSMM
Date: 2007-12-11 17:11:47 UTC
From: David J
Topic: 1126 Message: 1126

This is a courtesy update to your organization from the Fort Worth Hamfest committee.

1) The Website for the Hamfest is located at http://www.fwhamfest.com

2) The date of the hamfest is Jan 11-12, 2008.

3) The location of the Hamfest is at the Lockheed-Martin Recreation Area (very nice and large indoor facility) in central Tarrant County.

4) Several slots for volunteer work shifts are available for free admission. Individuals interested in volunteering should sign up from the website.

5) Clubs and Organizations are offered a free information booth (no charge!) These are for nonsales. Only very few indoor tables are still available for sales. So far several organizations have signed up. Sign up using the feedback form on the website.

6) All Hamfest Attendees and their families, Presenters and Sellers are invited to attend a chili dinner social event at the Lockheed Martin Recreation Association Ranch House, 1/2 mile south of the Hamfest on Friday Night after the show closes (8pm). There will be no charge, however, voluntary contributions to defray the cost of the food will be welcome. For those who are able, please bring a pot luck contribution of side dish or dessert.

7) If your club wants to be represented on the steering committee, contact Robert Dickey ASAP via the feedback form on the website.

73, Happy Holidays

David Johnson KB5YLG
FW Hamfest Steering Committee
http://www.fwhamfest.com

1127. kb9mwr wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2007-12-18 19:06:33 UTC
From: Kilgore
Topic: 1127 Message: 1127

Welcome! Please feel free to ask questions on the group. We have very knowledgeable individuals lurking on this list.

Doug Kilgore KD5OUG
List Owner

Yahoo! Groups Notification wrote:

>Hello,
>
>The following person would like to join the ntms-hsmm group:
>Email address: kb9mwr <kb9mwr@...>
>
>Comment from user:
>Working on a 70cm FHSS system, looking for info
>
>
>

1128. ARRL VHF Digital Handbook - 2008

Yahoo group: DAWG-HSMM
Date: 2007-12-18 23:57:58 UTC
From: John Champa
Topic: 1127 Message: 1128

Doug,

Thanks for giving KB9MWR such a warm welcome. I have placed this list in the soon to be published ARRL VHF Digital Handbook as THE most active HSMM radio list in the world!

So we can probably expect more traffic....(HI)

73,
John, K8OCL
To: ntms-hsmm@yahoogroups.com
From: kilgore1317@...
Date: Tue, 18 Dec 2007 13:06:33 -0600
Subject: [ntms-hsmm] kb9mwr <kb9mwr@...> wants to join ntms-hsmm

Welcome! Please feel free to ask questions on the group. We have very

knowledgeable individuals lurking on this list.

Doug Kilgore KD5OUG

List Owner

Yahoo! Groups Notification wrote:

>Hello,

>

>The following person would like to join the ntms-hsmm group:

>Email address: kb9mwr <kb9mwr@...>

>

>Comment from user:

>Working on a 70cm FHSS system, looking for info

>

>

>

[Non-text portions of this message have been removed]

1129. Experimenting with Zipit???

Yahoo group: DAWG-HSMM
Date: 2007-12-19 07:07:39 UTC
From: Kilgore
Topic: 1129 Message: 1129

Is anyone on the group experimenting with the Zipit Wireless Messenger Z2? It's a handheld, Linux based Instant Messaging PDA device with 802.11g capabilities for $150 or less (ebay). Article says it will accept a 8Gb mini-SD card.

http://www.linuxdevices.com/news/NS5942157201.html

There's a Yahoo group about Zipit:

http://tech.groups.yahoo.com/group/zipitwireless/

Doug KD5OUG

1130. Link: Potential for viral wifi router attacks

Yahoo group: DAWG-HSMM
Date: 2008-01-03 21:33:01 UTC
From: J. Beadles
Topic: 1130 Message: 1130

Interesting thing I hadn't considered before.

http://arstechnica.com/news.ars/post/20080102-wireless-router-security-flaws-could-fuel-viral-outbreak.html

1131. Building a Triode

Yahoo group: DAWG-HSMM
Date: 2008-01-08 15:00:18 UTC
From: Kilgore
Topic: 1131 Message: 1131

>Here's a link to an amazing video to watch. Passed on by Ted,
> W3SYN, it shows a French Ham recently fabricating his own triode
> vacuum tube! Lengthy, but worth the time to watch and see what one
> can do, given the interest.

http://www.dailymotion.com/video/x3wrzo

1132. Balloon Launch Program at RWK

Yahoo group: DAWG-HSMM
Date: 2008-01-13 21:31:43 UTC
From: Kilgore
Topic: 1132 Message: 1132

Doug Loughmiller W5BL will be giving a presentation about the ARBONET-2 balloon launch at the Monday, Jan. 14, 2008 meeting of the Richardson Wireless Klub. RWK built a 10 meter CW beacon package that flew on the balloon.

The meeting will be held at 7:00pm at the St. Barnabas Presbyterian Church, 1222 West Beltline, Richardson - just east of Richardson High School.

Visitors are encouraged to come hear and see the results of this Nearspace adventure.

Doug Kilgore KD5OUG
Richardson Wireless Klub
kd5oug@...

1133. Re: APPROVE -- konzatec wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2008-01-13 23:47:31 UTC
From: Kilgore
Topic: 1133 Message: 1133

I guess I'm not up on Asterisk. Please tell us more.

Doug Kilgore KD5OUG

Yahoo! Groups Notification wrote:

>Hello,
>
>The following person would like to join the ntms-hsmm group:
>Email address: konzatec <n0pco@...>
>
>Comment from user:
>Looking at HSMM as a way to carrier AARN (Asterisk) for event and
>incident communications. Want to see what's going on elsewhere.
>
>
>

1134. Re: [ntms-hsmm] Re: APPROVE -- konzatec wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2008-01-14 00:56:16 UTC
From: kevin asato
Topic: 1133 Message: 1134

Asterisk - VoIP hosted on a Linux server. Can be
configured as a gateway for a single phone or as a
PBX. Can use conventional POTS phones and T1/E1
connections using the proper interfaces.

hope this helps.

kevin
kc6pob

--- Kilgore <kilgore1317@...> wrote:

> I guess I'm not up on Asterisk. Please tell us
> more.
>
> Doug Kilgore KD5OUG
>
> Yahoo! Groups Notification wrote:
>
> >Hello,
> >
> >The following person would like to join the
> ntms-hsmm group:
> >Email address: konzatec <n0pco@...>
> >
> >Comment from user:
> >Looking at HSMM as a way to carrier AARN (Asterisk)
> for event and
> >incident communications. Want to see what's going
> on elsewhere.
> >
> >
> >
>

Be a better friend, newshound, and
know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

1135. Re: [ntms-hsmm] Re: APPROVE -- konzatec wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2008-01-14 01:48:29 UTC
From: Mars Reed
Topic: 1133 Message: 1135

Yes, Asterisk is indeed VoIP with the capability to handle telephone traffic from land line telephone (POTS), internet telephone (SIP, IAX2) and radio communications control and interconnect. Asterisk is "flexible interoperability" that can be used both in a commercial radio (i.e. industrial/business, public safety) as well as amateur radio systems. Currently have two Asterisk servers running (one for the shop the other for ALERTradio ERC) locally.

Plan to build several Asterisk servers into Communications Transportable Systems (CoTS) for field deployment. The CoTS would be where HSMM would come into the picture as this would provide a way to connect into the Public Switched Telephone Network (PSTN) and internet telephone to establish dial tone for event and incident communications. Asterisk provides a means in which mutliple systems / networks can be established separately as well as the ability to connect diverse systems / networks together as needed. One could have a Public Safety repeater attached as one node and a Amateur Radio Repeater on a second node yet both are controlled via the same server while both are separate functions. Another Amateur Radio repeater or link can be added to the server without any effect on the Public Safety of the server.

Currently there are three different ways to connect radio equipment to the Asterisk servers, the most recent method is a USB FOB (aka FROG : Full duplex Radio Operational Gear). The only limit to the capacity of a Asterisk server is the speed of the CPU and the amount of available memory.

Mars, N?PCO

kevin asato wrote:
>
> Asterisk - VoIP hosted on a Linux server. Can be
> configured as a gateway for a single phone or as a
> PBX. Can use conventional POTS phones and T1/E1
> connections using the proper interfaces.
>
> hope this helps.
>
> kevin
> kc6pob
>
> --- Kilgore <kilgore1317@...
> <mailto:kilgore1317%40sbcglobal.net>> wrote:
>
> > I guess I'm not up on Asterisk. Please tell us
> > more.

> >
> > Doug Kilgore KD5OUG
> >
> > Yahoo! Groups Notification wrote:
> >
> > >Hello,
> > >
> > >The following person would like to join the
> > ntms-hsmm group:
> > >Email address: konzatec <n0pco@...
> <mailto:n0pco%40alertradio.net>>
> > >
> > >Comment from user:
> > >Looking at HSMM as a way to carrier AARN (Asterisk)
> > for event and
> > >incident communications. Want to see what's going
> > on elsewhere.
> > >
> > >
> > >
> >
>
> _____
> Be a better friend, newshound, and
> know-it-all with Yahoo! Mobile. Try it now.
> http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ
> <http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ>
>
>

1136. Re: APPROVE -- konzatec wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2008-01-14 02:01:19 UTC
From: Steve
Topic: 1133 Message: 1136

--- In ntms-hsmm@yahoogroups.com, Kilgore <kilgore1317@...> wrote:
>
> I guess I'm not up on Asterisk. Please tell us more.
>
> Doug Kilgore KD5OUG

Here is a link to a video that sparked my interest a few years back.
It helped explain a few thing to me..

http://revision3.com/systm/asterisk/

1137. Fast Forward to 2008:: More on Asterisk

Yahoo group: DAWG-HSMM
Date: 2008-01-14 02:25:37 UTC
From: Mars Reed
Topic: 1133 Message: 1137

Here's a couple of links with information about Asterisk and its use in radio communications.

Southeastern Asterisk Radio Network
http://searn.alertradio.net

Asterisk Wireless Interoperability Demo
http://www.xelatec.com/asterisk/

Allstar Link Network
http://allstarlink.org

EasyVoxBox (A full featured IP PBX phone system. EasyVoxBox is based on Asterisk and freePBX and installs a complete system quick and easy. It gives full control and provides additional system utilities via the web based user interface.)
http://easyvoxbox.org

Mars, N?PCO

1138. Wikipedia HSMM node list

Yahoo group: DAWG-HSMM
Date: 2008-01-14 20:59:46 UTC
From: kf4yfd
Topic: 1138 Message: 1138

If anyone is into Wikipedia there is now a page for listing your
D-Star DD or 802.11 HSMM installations.

http://en.wikipedia.org/wiki/List_of_hsmm_nodes

73's

1139. List of HSMM / hinternet nodes

Yahoo group: DAWG-HSMM
Date: 2008-01-14 22:17:57 UTC
From: John Champa
Topic: 1139 Message: 1139

To: illinoisdigitalham@yahoogroups.comFrom: akz3r0@...: Mon, 14 Jan 2008 20:58:54 +0000Subject: [illinoisdigitalham] List of HSMM / hinternet nodes

If anyone is into Wikipedia there is now a page for listing yourD-Star DD or 802.11 HSMM installations. http://en.wikipedia.org/wiki/List_of_hsmm_nodes73's

[Non-text portions of this message have been removed]

1140. ARLX001 Hiram Percy Maxim II Passes Away at 72

Yahoo group: DAWG-HSMM
Date: 2008-01-16 20:58:52 UTC
From: John Champa
Topic: 1140 Message: 1140

In case you missed it.....> Hiram Percy Maxim II Passes Away at 72> > The grandson of ARRL co-founder Hiram Percy Maxim, W1AW, died at> home in Lyme, Connecticut on Saturday, January 12 after a lengthy> battle with prostate cancer. Hiram Percy Maxim II -- called HPM> just like his grandfather -- was 72.> > Not a ham, Maxim told the Newington Amateur Radio League at an> October 2002 meeting that he doesn't feel he shares the inventive> talents of his grandfather and great-grandfather, who held many> patents between them; Maxim's great-grandfather invented the machine> gun.> > He told the club audience that his grandfather took on radio and> filmmaking as diversions from inventing -- an endeavor he considered> extremely hard work. He also thought of Amateur Radio as a means to> "bring together" individuals from distant locations and believed> that communication was a key to better understanding other people> and cultures.> > The elder Maxim -- often referred to as "The Old Man," or "TOM" --> was an amateur film buff, and a highlight of his grandson's 2002> presentation was a short 16 mm film that showed the elder Maxim and> some of his friends working, relaxing and frolicking on the grounds> of the family's summer home in Lyme, Connecticut, where HPM II lived> until his death.> > His son, Merritt Maxim, told the ARRL, "Even though he didn't have> an Amateur Radio license, he was aware of the importance of his> family's role in founding the League. Through his father, my> grandfather -- an active engineer -- he continued to maintain an> interest in all things mechanical."> > A memorial service will be held at the Lyme Public Hall at 11 AM on> Monday, January 21. Burial will be private. Memorial contributions> may be made to the Lyme Public Hall Association, 249 Hamburg Rd,> Lyme, CT 06371.> NNNN> /EX> >

[Non-text portions of this message have been removed]

1141. WiFi Rover for VHF SS

Yahoo group: DAWG-HSMM
Date: 2008-01-17 19:43:51 UTC
From: Rusty Haddock
Topic: 1141 Message: 1141

Chuck/AF8Z and Rusty/AE5AE will be available for contacts Saturday afternoon on 2.4 and 5.6 GHZ. Most of you have equipment for at least one of these bands in your computers... your WiFi Cards. We have been able to get data rates in excess of 14MBps at distances of over 1 mile.

Here's what to do:

The NetMeeting program is usually found on most Microsoft Windows XP computer systems, generally in the directory C:\Program Files\NetMeeting . The actual program file is named CONF.EXE.

Start NetMeeting by double clicking it. Under Options menu fill in some identifying information about yourself. Nothing too personal but a callsign in at least one of the name fields (first or last) would be great.

After NetMeeting has been setup, you'll need to find our Access Point.

On my Dell I right click on the signal bar icon down in the System Tray, then connect to the available SSID's. Our SSID's will be something like

CQ VHFSS 2GHZ AE5AE 10.4.59.73 for 802.11bg
and
CQ VHFSS 5GHZ AE5AE 10.4.59.73 for 802.11a

Once the connection to our access point has been made switch back to NetMeeting and make a "call" to 10.4.59.73 -- this is the IP address of *our* laptop. Once the call connects, open up a chat window by pressing the Chat button (looks like a cartoon dialog "bubble") and start typing.

We will give you our grid square and hopefully we will get yours.

Also, we may have voice and video capability so be prepared to see Rusty's smiling (albiet UUGLY) face. :-)

If you have both 802.11BG and 802.11A capability then switch bands so we can work you again.

We will be on Channel 1 for 802.11b/g (2412 MHz) and Channel 157 for 802.11a (5785 MHz). We are trying to avoid interfering with the weak signal portion of the band.

Planning liaison on 6M, 2 M, 70cm, and 23 cm.

We are accepting schedules at af8z@.... We don't have a lot of time since Sunday Chuck wants to contest from home.

```
--
_____ Rusty Haddock = AE5AE = rusty@...
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

1142. Re: [ntms-hsmm] WiFi Rover for VHF SS

Yahoo group: DAWG-HSMM
Date: 2008-01-20 17:09:37 UTC
From: Johnny KD5LWU
Topic: 1141 Message: 1142

Hi I have a WiFi Yahoo grooup and I would be very interested in
reporting your project and experience to my group. If you don't mind
giving some background to this and the results directly to
wifiehamconnect@... I would very much appreciate it. Thanks 73
Johnny KD5LWU DM57ri

Rusty Haddock wrote:
>
> Chuck/AF8Z and Rusty/AE5AE will be available for contacts Saturday
> afternoon on 2.4 and 5.6 GHZ. Most of you have equipment for at least
> one of these bands in your computers... your WiFi Cards. We have been
> able to get data rates in excess of 14MBps at distances of over 1 mile.
>
> Here's what to do:
>
>
> The NetMeeting program is usually found on most Microsoft Windows XP
> computer systems, generally in the directory C:\Program Files\NetMeeting .
> The actual program file is named CONF.EXE.
>
> Start NetMeeting by double clicking it. Under Options menu fill in
> some identifying information about yourself. Nothing too personal but
> a callsign in at least one of the name fields (first or last) would
> be great.
>
> After NetMeeting has been setup, you'll need to find our Access Point.
>
> On my Dell I right click on the signal bar icon down in the System Tray,
> then connect to the available SSID's. Our SSID's will be something like
>
> CQ VHFSS 2GHZ AE5AE 10.4.59.73 for 802.11bg
> and
> CQ VHFSS 5GHZ AE5AE 10.4.59.73 for 802.11a
>
> Once the connection to our access point has been made switch back to
> NetMeeting and make a "call" to 10.4.59.73 -- this is the IP address of
> *our* laptop. Once the call connects, open up a chat window by pressing
> the Chat button (looks like a cartoon dialog "bubble") and start typing.
>
> We will give you our grid square and hopefully we will get yours.
>
> Also, we may have voice and video capability so be prepared to see
> Rusty's smiling (albiet UUGLY) face. :-)
>
> If you have both 802.11BG and 802.11A capability then switch bands so

> we can work you again.
>
> We will be on Channel 1 for 802.11b/g (2412 MHz) and Channel 157 for
> 802.11a (5785 MHz). We are trying to avoid interfering with the weak
> signal portion of the band.
>
> Planning liaison on 6M, 2 M, 70cm, and 23 cm.
>
> We are accepting schedules at af8z@...
> <mailto:af8z%40earthlink.net>. We don't have a lot
> of time since Sunday Chuck wants to contest from home.
>
> --
> _____ Rusty Haddock = AE5AE = rusty@...
> <mailto:rusty%40fe2o3.lonestar.org>
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>
>

[Non-text portions of this message have been removed]

1143. Re: [ntms-hsmm] WiFi Rover for VHF SS

Yahoo group: DAWG-HSMM
Date: 2008-01-20 17:16:31 UTC
From: Johnny KD5LWU
Topic: 1141 Message: 1143

Hi I have a WiFi Yahoo grooup and I would be very interested in
reporting your project and experience to my group. If you don't mind
giving some background to this and the results directly to
wifiehamconnect@... I would very much appreciate it. Thanks 73
Johnny KD5LWU DM57ri

Rusty Haddock wrote:
>
> Chuck/AF8Z and Rusty/AE5AE will be available for contacts Saturday
> afternoon on 2.4 and 5.6 GHZ. Most of you have equipment for at least
> one of these bands in your computers... your WiFi Cards. We have been
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> Start NetMeeting by double clicking it. Under Options menu fill in
> some identifying information about yourself. Nothing too personal but
> a callsign in at least one of the name fields (first or last) would
> be great.
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> After NetMeeting has been setup, you'll need to find our Access Point.
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> On my Dell I right click on the signal bar icon down in the System Tray,
> then connect to the available SSID's. Our SSID's will be something like
>
> CQ VHFSS 2GHZ AE5AE 10.4.59.73 for 802.11bg
> and
> CQ VHFSS 5GHZ AE5AE 10.4.59.73 for 802.11a
>
> Once the connection to our access point has been made switch back to
> NetMeeting and make a "call" to 10.4.59.73 -- this is the IP address of
> *our* laptop. Once the call connects, open up a chat window by pressing
> the Chat button (looks like a cartoon dialog "bubble") and start typing.
>
> We will give you our grid square and hopefully we will get yours.
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> Also, we may have voice and video capability so be prepared to see
> Rusty's smiling (albiet UUGLY) face. :-)
>
> If you have both 802.11BG and 802.11A capability then switch bands so

> we can work you again.
>
> We will be on Channel 1 for 802.11b/g (2412 MHz) and Channel 157 for
> 802.11a (5785 MHz). We are trying to avoid interfering with the weak
> signal portion of the band.
>
> Planning liaison on 6M, 2 M, 70cm, and 23 cm.
>
> We are accepting schedules at af8z@...
> <mailto:af8z%40earthlink.net>. We don't have a lot
> of time since Sunday Chuck wants to contest from home.
>
> --
> _____ Rusty Haddock = AE5AE = rusty@...
> <mailto:rusty%40fe2o3.lonestar.org>
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>
>

[Non-text portions of this message have been removed]

1144. Re: WiFi Rover for VHF SS help

Yahoo group: DAWG-HSMM
Date: 2008-01-30 00:06:40 UTC
From: kc0zhf
Topic: 1141 Message: 1144

hi, i am new to this and have an understading of setting up a wlan
and have one setup already, but when i start from scratch to set one
up like this i have problems,
when i do it ad-hoc it works with the two pc's when i put a router
in to it i have problems with the router (wrt-55ag)
could some one do a write up and put it in the files section of how
you have it set up???
i have the router setup the same way(with my call of course)
and connect to it but netmeeting has problem connecting
thanks

--- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> Chuck/AF8Z and Rusty/AE5AE will be available for contacts Saturday
> afternoon on 2.4 and 5.6 GHZ. Most of you have equipment for at
least
> one of these bands in your computers... your WiFi Cards. We have
been
> able to get data rates in excess of 14MBps at distances of over 1
mile.
>
> Here's what to do:
>
>
> The NetMeeting program is usually found on most Microsoft Windows XP
> computer systems, generally in the directory C:\Program
Files\NetMeeting .
> The actual program file is named CONF.EXE.
>
> Start NetMeeting by double clicking it. Under Options menu fill in
> some identifying information about yourself. Nothing too personal
but
> a callsign in at least one of the name fields (first or last) would
> be great.
>
> After NetMeeting has been setup, you'll need to find our Access
Point.
>
> On my Dell I right click on the signal bar icon down in the System
Tray,
> then connect to the available SSID's. Our SSID's will be something
like
>
> CQ VHFSS 2GHZ AE5AE 10.4.59.73 for 802.11bg
> and

> CQ VHFSS 5GHZ AE5AE 10.4.59.73 for 802.11a
>
> Once the connection to our access point has been made switch back to
> NetMeeting and make a "call" to 10.4.59.73 -- this is the IP
address of
> *our* laptop. Once the call connects, open up a chat window by
pressing
> the Chat button (looks like a cartoon dialog "bubble") and start
typing.
>
> We will give you our grid square and hopefully we will get yours.
>
> Also, we may have voice and video capability so be prepared to see
> Rusty's smiling (albiet UUGLY) face. :-)
>
> If you have both 802.11BG and 802.11A capability then switch bands
so
> we can work you again.
>
> We will be on Channel 1 for 802.11b/g (2412 MHz) and Channel 157 for
> 802.11a (5785 MHz). We are trying to avoid interfering with the
weak
> signal portion of the band.
>
> Planning liaison on 6M, 2 M, 70cm, and 23 cm.
>
> We are accepting schedules at af8z@... We don't have a lot
> of time since Sunday Chuck wants to contest from home.
>
> --
> _____ Rusty Haddock = AE5AE = rusty@...
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>

1145. Re: [ntms-hsmm] Re: WiFi Rover for VHF SS help

Yahoo group: DAWG-HSMM
Date: 2008-01-30 02:39:46 UTC
From: Rusty Haddock
Topic: 1141 Message: 1145

kc0zhf wrote:
>hi, i am new to this and have an understading of setting up a wlan
>and have one setup already, but when i start from scratch to set one
>up like this i have problems,
>when i do it ad-hoc it works with the two pc's when i put a router
>in to it i have problems with the router (wrt-55ag)
>could some one do a write up and put it in the files section of how
>you have it set up???
>i have the router setup the same way(with my call of course)
>and connect to it but netmeeting has problem connecting

Did you turn off the firewall in your wireless router???
Have you tried other protocols, not just NetMeeting?
Can you ping each PC from the other?

FWIW, in our setup, our "roving" laptop was connected via
Ethernet cable to our AP.

-Rusty-
--
_____ Rusty Haddock = AE5AE = rusty@...
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1146. Re: WiFi Rover for VHF SS help

Yahoo group: DAWG-HSMM
Date: 2008-01-30 20:31:43 UTC
From: kc0zhf
Topic: 1141 Message: 1146

no firewall on, thanks for you help thou i got it figured out
just had a case of "CRS" (can't remember you know)
"computer name"joe,james,big drive,ect... not network name got it:-)
i just make it harder than it really is, i did some road testing and
got about 1/4 mile with the factory antennas,i looked at the pictures
and it looks easy to change to a coax for outdoor antennas,
any recomondations for rovering???
Rodney
kcozhf

--- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> kc0zhf wrote:
> >hi, i am new to this and have an understading of setting up a
wlan
> >and have one setup already, but when i start from scratch to
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> >when i do it ad-hoc it works with the two pc's when i put a
router
> >in to it i have problems with the router (wrt-55ag)
> >could some one do a write up and put it in the files section
of how
> >you have it set up???
> >i have the router setup the same way(with my call of course)
> >and connect to it but netmeeting has problem connecting
>
> Did you turn off the firewall in your wireless router???
> Have you tried other protocols, not just NetMeeting?
> Can you ping each PC from the other?
>
> FWIW, in our setup, our "roving" laptop was connected via
> Ethernet cable to our AP.
>
> -Rusty-
> --
> _____ Rusty Haddock = AE5AE = rusty@...
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>

1147. Re: [ntms-hsmm] Re: WiFi Rover for VHF SS help

Yahoo group: DAWG-HSMM
Date: 2008-01-30 21:34:12 UTC
From: Rusty Haddock
Topic: 1141 Message: 1147

kc0zhf wrote:
>no firewall on, thanks for you help thou i got it figured out
>just had a case of "CRS" (can't remember you know)
>"computer name"joe,james,big drive,ect... not network name got it:-)
>i just make it harder than it really is, i did some road testing and
>got about 1/4 mile with the factory antennas,i looked at the pictures
>and it looks easy to change to a coax for outdoor antennas,
>any recomondations for rovering???

You can probably get farther with the factory antennas. Alas, one thing
you do need to be able to tweak for SERIOUS distances (>1/4 or 1/2-mile)
is the ACKtimeout. Google "ack timeout" for a good description of this.
Nonetheless, the good ol' speed of light starts to become a limit for you
beyond the few hundred meters (~ 1/4-mile) for which 802.11 was designed.

I believe (maybe misguidedly) that few off-the-shelf AP's allow one
to tweak that parameter but take, say, an WRT54G with some third party
software... and you've got a chance. (OpenWRT and DD-WRT do, I beleive)
AND ACKtimeout really needs to be tweaked at BOTH ends of the long
distance wireless link!

Even at distances such as these, Chuck and I found that signal level is
not THAT much of a problem. **BUT** when it does become a problem simply
adding a better antenna does the job better, simpler, and cheaper than
amps & pre-amps. A multi-section vertical does a nice job but just about
anything for 2.4-GHz and 5.7-GHz (a beam or a dish) will work just peachy.

Last recommendation: find a high spot! :-)

Good luck!

-Rusty-
--
_____ Rusty Haddock = AE5AE = rusty@...
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1148. Re: WiFi Rover for VHF SS help

Yahoo group: DAWG-HSMM
Date: 2008-01-31 18:10:06 UTC
From: kc0zhf
Topic: 1141 Message: 1148

thanks, that little bit of info was a big help,
i have tried recive amps on some other things and it seems
to just bring up the noise figure in less it is tuned,
a properly tuned antenna makes a world of difference
bandpass filter help on some things also,73's
Rodney
kc0zhf

--- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> kc0zhf wrote:
> >no firewall on, thanks for you help thou i got it figured out
> >just had a case of "CRS" (can't remember you know)
> >"computer name"joe,james,big drive,ect... not network name got
it:-)
> >i just make it harder than it really is, i did some road
testing and
> >got about 1/4 mile with the factory antennas,i looked at the
pictures
> >and it looks easy to change to a coax for outdoor antennas,
> >any recomondations for rovering???
>
> You can probably get farther with the factory antennas. Alas, one
thing
> you do need to be able to tweak for SERIOUS distances (>1/4 or 1/2-
mile)
> is the ACKtimeout. Google "ack timeout" for a good description of
this.
> Nonetheless, the good ol' speed of light starts to become a limit
for you
> beyond the few hundred meters (~ 1/4-mile) for which 802.11 was
designed.
>
> I believe (maybe misguidedly) that few off-the-shelf AP's allow one
> to tweak that parameter but take, say, an WRT54G with some third
party
> software... and you've got a chance. (OpenWRT and DD-WRT do, I
beleive)
> **AND** ACKtimeout really needs to be tweaked at BOTH ends of the
long
> distance wireless link!
>
> Even at distances such as these, Chuck and I found that signal
level is
> not THAT much of a problem. **BUT** when it does become a problem

simply
> adding a better antenna does the job better, simpler, and cheaper
than
> amps & pre-amps. A multi-section vertical does a nice job but just
about
> anything for 2.4-GHz and 5.7-GHz (a beam or a dish) will work just
peachy.
>
> Last recommendation: find a high spot! :-)
>
> Good luck!
>
> -Rusty-
> --
> _____ Rusty Haddock = AE5AE = rusty@...
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> |/__V__/ Math illiteracy affects 7 out of 5 people!
>

1149. Re: APPROVE -- royf wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2008-02-01 01:59:57 UTC
From: Kilgore
Topic: 1149 Message: 1149

Welcome -

Please ask any questions you have. There are a number of very knowledgeable persons on this group.

In Richardson,. TX were are in planning stages for providing the 64 mile 2008 Wild Ride Bike Rally with internet connection. Last year we had 4 reststops connected to the internet with 802.11 and D-star. Digital pictures were uploaded to the web server. An internet feed from a City of Richardson building put the internet at the Start/Finish line. Operators in Net Control could see what was happening. In addition, we had a large screen TV in the hospitality area alternately displaying sponsor logos and the digital pictures from the route. The ride committee really liked that. This year we are going to try for 2 displays.

Let us hear what is happening in Boise.

Doug Kilgore KD5OUG

Yahoo! Groups Notification wrote:

>Hello,
>
>The following person would like to join the ntms-hsmm group:
>Email address: royf <roy4strom@...>
>
>Comment from user:
>Want to learn more about what people are doing with HSMM. Roy - AC7YZ -
>Boise, ID
>
>
>

1150. ARRL/TAPR Digital Communications Conference in Chicago Dates Announced

Yahoo group: DAWG-HSMM
Date: 2008-02-05 17:25:06 UTC
From: Mark Thompson
Topic: 1150 Message: 1150

Dates for ARRL/TAPR Digital Communications Conference in Chicago Announced (Feb 4, 2008) --

The Tucson Amateur Packet Radio Corporation (TAPR) has announced that the 2008 ARRL/TAPR Digital Communications Conference will take place September 26-28 at the Holiday Inn Hotel in Elk Grove Village, Illinois, a suburb of Chicago, near O'Hare airport.

The conference is an international forum for radio amateurs to meet, publish their work and present new ideas and techniques. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results and practical applications. Forums will feature the latest developments in Amateur Radio digital communications, as well as demonstrations of emerging digital technology.

More information is available on the ARRL/TAPR DCC Web site, http://www.tapr.org/dcc.html

---
Be a better friend, newshound, and
know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

[Non-text portions of this message have been removed]

1151. Call for Papers - ARRL and TAPR Digital Communications Conference

Yahoo group: DAWG-HSMM
Date: 2008-02-06 04:39:20 UTC
From: Mark Thompson
Topic: 1151 Message: 1151

Conferences:
ARRL and TAPR Digital Communications Conference
The 27th DCC
September 26-28, 2008 - Chicago , Illinois

Introduction
Mark your calendar and start making plans to attend the premier technical conference of the year, the 27th Annual ARRL and TAPR Digital Communications Conference to be held September 26-28, 2008, in Chicago , Illinois. The conference location is the Holiday Inn Hotel, Elk Grove Village IL
The ARRL and TAPR Digital Communications Conference is an international forum for radio amateurs to meet, publish their work, and present new ideas and techniques. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications.

Topics include, but are not limited to: Software defined radio (SDR), digital voice, digital satellite communications, Global Position System (GPS), precision timing, Automatic Position Reporting System® (APRS), short messaging (a mode of APRS), Digital Signal Processing (DSP), HF digital modes, Internet interoperability with amateur radio networks, spread spectrum, IEEE 802.11 and other Part 15 license-exempt systems adaptable for Amateur Radio, using TCP/IP networking over amateur radio, mesh and peer to peer wireless networking, emergency and Homeland Defense backup digital communications, using Linux in amateur radio, updates on AX.25 and other wireless networking protocols.

Call for Papers
Technical papers are solicited for presentation at the 27th Annual ARRL and TAPR Digital Communications Conference to be held September 26-28, 2008 in Chicago , Illinois and publication in the Conference Proceedings. Annual conference proceedings are published by the ARRL. Presentation at the conference is not required for publication. Submission of papers are due by July 31st, 2008 and should be submitted to
Maty Weinberg, ARRL
225 Main Street
Newington , CT 06111
or via the Internet to maty@...

Details on Call for Papers
Technical papers are solicited for presentation at the ARRL and TAPR Digital Communications Conference for publication in the Conference Proceedings.
Annual conference proceedings are published by the ARRL. Presentation at the conference is not required for publication.

The ARRL and TAPR Digital Communications Conference is an international forum for radio amateurs to meet, publish their work, and present new ideas and techniques. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. Topics include, but are not limited to:

Software defined radio (SDR)
Digital voice
Digital satellite communications
Global position system
Precise Timing
Automatic Position Reporting System (APRS)
Short messaging (a mode of APRS)
Digital Signal Processing (DSP)
HF digital modes
Internet interoperability with Amateur Radio networks
Spread spectrum
IEEE 802.11 and other Part 15 license-exempt systems adaptable for Amateur Radio
Using TCP/IP networking over Amateur Radio
Mesh and peer to peer wireless networking
Emergency and Homeland Defense backup digital communications in Amateur Radio
Updates on AX.25 and other wireless networking protocols
Topics that advanced the amateur radio art

Submission Guide Lines
Anyone interested in digital communications is invited to submit a paper for publication in the Conference Proceedings. Presentation at the Conference is not required for publication. If you know of someone who is doing great things with digital communications, be sure to personally tell them about this!

See above for deadlines and where to submit your paper.

Some quick guidelines:
Papers should be on 8-1/2 X 11 inch paper with the following margins: left and right, 0.75 inch; top, 0.8 inch; and bottom, 1 inch (very important).
Structure of paper should be (see single column example below, two column should follow a similar format):
Title
Author(s) with affiliation
Abstract (200 words or less)
Key words (3-5)
Body
Reference List
Papers can be in one- or two-column format.
Use 12-point Times Roman for the main body of text; do not number pages.
Photos and drawings should have good contrast. Note: a photocopy gives a good indication of print quality.
Electronic submissions can be made in any of the following formats:
Adobe Acrobat PDF;
Microsoft Word
Reference citations and other topics not explicitly discussed in this list should follow a recognized standard format (APA, IEEE, etc).
A biographical page is to be included with the manuscript. It should contain Name, Address, Phone, and E-mail for each author as well as a short descriptive paragraph about the first author. The bio page will be used to contact authors concerning the conference and presentation schedule.
Release form:

A formal release form is not required, but indicate that the paper is being sent for use in the Proceedings of the ARRL and TAPR Digital Communications Conference. You are only giving permission for your paper to be printed in the Proceedings.

Example Single Column Page Layout
Two column would be similar in nature, but with two columns.
View Paper Example http://www.tapr.org/images/dcc.paper.large.gif

---

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http://tools.search.yahoo.com/newsearch/category.php?category=shopping

[Non-text portions of this message have been removed]

1152. Re: APPROVE -- wa1zcn wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2008-02-06 05:50:14 UTC
From: Kilgore
Topic: 1152 Message: 1152

Yahoo! Groups Notification wrote:

>Hello,
>
>The following person would like to join the ntms-hsmm group:
>Email address: wa1zcn <dbcolter@...>
>
>Comment from user:
>Currently working on a statewide microwave network in support of the NH
>Dept of Homeland Security and Emergency Management. ASEC, NH ARES.
>
>
>

1153. Verizon Vios vs Time Warner Cable?

Yahoo group: DAWG-HSMM
Date: 2008-02-06 21:00:42 UTC
From: Jerry Karlovich, KD5OM
Topic: 1153 Message: 1153

We're considering switching to Vios. We currently have TW high speed internet and digital TV. Verizon also wants to put our phone line on Vios. The price difference is tempting. However, I have serious issues with most anything having to do with Verizon due to past dealings :(. I don't like being lied to. Is this another smooth talking salesman or is the service acceptable?

Jerry the K.
KD5OM

1154. Re: [ntms-hsmm] Verizon Vios vs Time Warner Cable?

Yahoo group: DAWG-HSMM
Date: 2008-02-06 21:17:10 UTC
From: Wes Johnston, AI4PX
Topic: 1153 Message: 1154

From what I've read, if you go with FIOS, they can/will pull your copper phone lines which will lock you in to verizon only in the future... HOWEVER you are supposed to be able to specify that they not disrupt your copper lines at the demarcation box.

Again, this is just what I've read from slashdot.

Wes

On Feb 6, 2008 4:00 PM, Jerry Karlovich, KD5OM <kd5oldman@...> wrote:
>
>
>
>
> We're considering switching to Vios. We currently have TW high speed
> internet and digital TV. Verizon also wants to put our phone line on
> Vios. The price difference is tempting. However, I have serious issues
> with most anything having to do with Verizon due to past dealings :(.
> I don't like being lied to. Is this another smooth talking salesman or
> is the service acceptable?
>
> Jerry the K.
> KD5OM
>
>

--
Some people's minds are so open, their brains fall out.

1155. Re: [ntms-hsmm] Verizon Vios vs Time Warner Cable?

Yahoo group: DAWG-HSMM
Date: 2008-02-06 21:18:36 UTC
From: Keith Berry
Topic: 1153 Message: 1155

Jerry,

I think you mean FiOS which is their fiber to the home service. Everyone I know that has it is very pleased with the quality and service level. The only thing that is a concern is the ONU (Optical Network Unit) that converts from fiber to copper in the house has a battery backup. if your power is out for a very long time, then the battery can run down. Other than that, it is a good reliable product from what I hear.

Remember, I work for 'the other phone guys', but we don't compete in your area for that type of service.

Regards,
Keith KE0FV

----- Original Message ----
From: "Jerry Karlovich, KD5OM" <kd5oldman@...>
To: ntms-hsmm@yahoogroups.com
Sent: Wednesday, February 6, 2008 3:00:42 PM
Subject: [ntms-hsmm] Verizon Vios vs Time Warner Cable?

We're considering switching to Vios. We currently have TW high speed internet and digital TV. Verizon also wants to put our phone line on Vios. The price difference is tempting. However, I have serious issues with most anything having to do with Verizon due to past dealings :(. I don't like being lied to. Is this another smooth talking salesman or is the service acceptable?

Jerry the K.
KD5OM

[Non-text portions of this message have been removed]

1156. Re: Verizon Vios vs Time Warner Cable?

Yahoo group: DAWG-HSMM
Date: 2008-02-06 21:34:55 UTC
From: Jerry Karlovich, KD5OM
Topic: 1153 Message: 1156

Hey Keith,

Tnx for the reply.

I feel silly now. I know it's FiOS and not VIOS. Do you think I can have them do an installation at a patch panel in my Garage? I will buy the cables to homerun everything to that point. The cable guys in the past have my attic looking like a real mess with coax running back and forth and splitters and amplifiers everywhere. Can you say TVI? Besides, TW is no longer on the dual coax system. We have TVs at 6 locations and a wireless router. Does very set need a STB?

Jerry the K.
KD5OM

--- In ntms-hsmm@yahoogroups.com, Keith Berry <berryko@...> wrote:
>
> Jerry,
>
> I think you mean FiOS which is their fiber to the home service. Everyone I know that has it is very pleased with the quality and service level. The only thing that is a concern is the ONU (Optical Network Unit) that converts from fiber to copper in the house has a battery backup. if your power is out for a very long time, then the battery can run down. Other than that, it is a good reliable product from what I hear.
>
> Remember, I work for 'the other phone guys', but we don't compete in your area for that type of service.
>
>
> Regards,
> Keith KE0FV

1157. Re: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Yahoo group: DAWG-HSMM
Date: 2008-02-06 21:40:50 UTC
From: Keith Berry
Topic: 1153 Message: 1157

I am not 100% familiar with their product, but I believe every TV set needs a STB. I think they run Cat-5 to all of the boxes, so if it ia slready run to a single point in the garage, then they should be able to put the ONU there.

Others on here who have the service can probably tell you better than I can.

Regards,
Keith

----- Original Message ----
From: "Jerry Karlovich, KD5OM" <kd5oldman@...>
To: ntms-hsmm@yahoogroups.com
Sent: Wednesday, February 6, 2008 3:34:55 PM
Subject: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Hey Keith,

Tnx for the reply.

I feel silly now. I know it's FiOS and not VIOS. Do you think I can have them do an installation at a patch panel in my Garage? I will buy the cables to homerun everything to that point. The cable guys in the past have my attic looking like a real mess with coax running back and forth and splitters and amplifiers everywhere. Can you say TVI? Besides, TW is no longer on the dual coax system. We have TVs at 6 locations and a wireless router. Does very set need a STB?

Jerry the K.
KD5OM

--- In ntms-hsmm@yahoogrou ps.com, Keith Berry <berryko@... > wrote:
>
> Jerry,
>
> I think you mean FiOS which is their fiber to the home service. Everyone I know that has it is very pleased with the quality and service level. The only thing that is a concern is the ONU (Optical Network Unit) that converts from fiber to copper in the house has a battery backup. if your power is out for a very long time, then the battery can run down. Other than that, it is a good reliable product from what I hear.
>
> Remember, I work for 'the other phone guys', but we don't compete in your area for that type of service.
>
>
> Regards,

> Keith KE0FV

[Non-text portions of this message have been removed]

1158. Re: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Yahoo group: DAWG-HSMM
Date: 2008-02-06 21:53:22 UTC
From: Pat "BUFF" Hykkonen
Topic: 1153 Message: 1158

The ONI (Optical Network Interface) box on the side of your house terminates the fiber connection and breaks it out into a limited amount of CATV video (about 20 channels in my case), digital video over coax for delivery to each STB, a 100Mbps full-duplex Ethernet port, and two POTS lines.

Based on what services you buy from them determines what cables they run into your house. In my case, CATV and Ethernet into the house that terminate into a router that provides standard Internet connectivity to my home network. The box also provides Internet connectivity to the STBs for the guide service and Video-on-demand.

As was said earlier, my only issue is that the ONI is backed up by a small UPS unit which would only last for a few hours of a power grid outage. Additionally, the battery backup only provides power to the POTS lines as far as I can tell. I know my Internet has disappeared during a power outage, haven't had a chance to test video service during a power outage.

On Feb 6, 2008, at 3:40 PM, Keith Berry wrote:

> I am not 100% familiar with their product, but I believe every TV
> set needs a STB. I think they run Cat-5 to all of the boxes, so if
> it ia slready run to a single point in the garage, then they should
> be able to put the ONU there.
>
> Others on here who have the service can probably tell you better
> than I can.
>
> Regards,
> Keith
>
> ----- Original Message ----
> From: "Jerry Karlovich, KD5OM" <kd5oldman@...>
> To: ntms-hsmm@yahoogroups.com
> Sent: Wednesday, February 6, 2008 3:34:55 PM
> Subject: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?
>
> Hey Keith,
>
> Tnx for the reply.
>
> I feel silly now. I know it's FiOS and not VIOS. Do you think I can
> have them do an installation at a patch panel in my Garage? I will
> buy the cables to homerun everything to that point. The cable guys in
> the past have my attic looking like a real mess with coax running

> back and forth and splitters and amplifiers everywhere. Can you say
> TVI? Besides, TW is no longer on the dual coax system. We have TVs at
> 6 locations and a wireless router. Does very set need a STB?
>
> Jerry the K.
> KD5OM
>
> --- In ntms-hsmm@yahoogrou ps.com, Keith Berry <berryko@... > wrote:
> >
> > Jerry,
> >
> > I think you mean FiOS which is their fiber to the home service.
> Everyone I know that has it is very pleased with the quality and
> service level. The only thing that is a concern is the ONU (Optical
> Network Unit) that converts from fiber to copper in the house has a
> battery backup. if your power is out for a very long time, then the
> battery can run down. Other than that, it is a good reliable product
> from what I hear.
> >
> > Remember, I work for 'the other phone guys', but we don't compete
> in your area for that type of service.
> >
> >
> > Regards,
> > Keith KE0FV
>
> [Non-text portions of this message have been removed]
>
>
>

1159. Re: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Yahoo group: DAWG-HSMM
Date: 2008-02-06 22:26:18 UTC
From: kevin asato
Topic: 1153 Message: 1159

The battery is to power the entire ONI as you cannot
drive DC voltage down fiber.

As far as where the unit gets mounted, Verizon will
typically demarc the box outside your premises so that
they have access to the ONI. In my neighborhood, it
has been installed in the same area as the old POTS
demarc block.

73,
kevin
kc6pob

--- "Pat \"BUFF\" Hykkonen" <pat@...> wrote:

> The ONI (Optical Network Interface) box on the side
> of your house
> terminates the fiber connection and breaks it out
> into a limited
> amount of CATV video (about 20 channels in my case),
> digital video
> over coax for delivery to each STB, a 100Mbps
> full-duplex Ethernet
> port, and two POTS lines.
>
> Based on what services you buy from them determines
> what cables they
> run into your house. In my case, CATV and Ethernet
> into the house
> that terminate into a router that provides standard
> Internet
> connectivity to my home network. The box also
> provides Internet
> connectivity to the STBs for the guide service and
> Video-on-demand.
>
> As was said earlier, my only issue is that the ONI
> is backed up by a
> small UPS unit which would only last for a few hours
> of a power grid
> outage. Additionally, the battery backup only
> provides power to the
> POTS lines as far as I can tell. I know my Internet
> has disappeared
> during a power outage, haven't had a chance to test
> video service

> during a power outage.
>
> On Feb 6, 2008, at 3:40 PM, Keith Berry wrote:
>
> > I am not 100% familiar with their product, but I
> believe every TV
> > set needs a STB. I think they run Cat-5 to all of
> the boxes, so if
> > it ia slready run to a single point in the garage,
> then they should
> > be able to put the ONU there.
> >
> > Others on here who have the service can probably
> tell you better
> > than I can.
> >
> > Regards,
> > Keith
> >
> > ----- Original Message ----
> > From: "Jerry Karlovich, KD5OM"
> <kd5oldman@...>
> > To: ntms-hsmm@yahoogroups.com
> > Sent: Wednesday, February 6, 2008 3:34:55 PM
> > Subject: [ntms-hsmm] Re: Verizon Vios vs Time
> Warner Cable?
> >
> > Hey Keith,
> >
> > Tnx for the reply.
> >
> > I feel silly now. I know it's FiOS and not VIOS.
> Do you think I can
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> system. We have TVs at
> > 6 locations and a wireless router. Does very set
> need a STB?
> >
> > Jerry the K.
> > KD5OM
> >
> > --- In ntms-hsmm@yahoogrou ps.com, Keith Berry

> <berryko@... > wrote:
> > >
> > > Jerry,
> > >
> > > I think you mean FiOS which is their fiber to
> the home service.
> > Everyone I know that has it is very pleased with
> the quality and
> > service level. The only thing that is a concern is
> the ONU (Optical
> > Network Unit) that converts from fiber to copper
> in the house has a
> > battery backup. if your power is out for a very
> long time, then the
> > battery can run down. Other than that, it is a
> good reliable product
> > from what I hear.
> > >
> > > Remember, I work for 'the other phone guys', but
> we don't compete
> > in your area for that type of service.
> > >
> > >
> > > Regards,
> > > Keith KE0FV
> >
> > [Non-text portions of this message have been
> removed]
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>
> Yahoo! Groups Links
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1160. Re: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Yahoo group: DAWG-HSMM
Date: 2008-02-06 22:34:08 UTC
From: Ron Cole
Topic: 1153 Message: 1160

Hi guys. My FIOS box ran for just over 4 hours with the power out at the house last year. That was until the RED warning light on the Battery backup unit came on. Since there was no power at the house I could not test Internet and TV since there was no power for the Router and Network gear or the TV and STB.

The CATV signal has about 20-30 channels of Analog TV the rest are QAM digital with encryption so a STB is needed. I would expect to see the analog channels go away next year when over the air analog goes away. Since I have an older Optical box it does not so the IP over CATV function and I have an additional box that puts IP Packets on the cable for the STB so its Guide and Video on Demand works. Over all I am happy with the service and selection thats available.

Ron
n5hyh

"Pat \"BUFF\" Hykkonen" <pat@...> wrote: The ONI (Optical Network Interface) box on the side of your house
terminates the fiber connection and breaks it out into a limited
amount of CATV video (about 20 channels in my case), digital video
over coax for delivery to each STB, a 100Mbps full-duplex Ethernet
port, and two POTS lines.

Based on what services you buy from them determines what cables they
run into your house. In my case, CATV and Ethernet into the house
that terminate into a router that provides standard Internet
connectivity to my home network. The box also provides Internet
connectivity to the STBs for the guide service and Video-on-demand.

As was said earlier, my only issue is that the ONI is backed up by a
small UPS unit which would only last for a few hours of a power grid
outage. Additionally, the battery backup only provides power to the
POTS lines as far as I can tell. I know my Internet has disappeared
during a power outage, haven't had a chance to test video service
during a power outage.

On Feb 6, 2008, at 3:40 PM, Keith Berry wrote:

> I am not 100% familiar with their product, but I believe every TV
> set needs a STB. I think they run Cat-5 to all of the boxes, so if
> it ia slready run to a single point in the garage, then they should
> be able to put the ONU there.
>
> Others on here who have the service can probably tell you better
> than I can.
>
> Regards,
> Keith

>
> ----- Original Message ----
> From: "Jerry Karlovich, KD5OM"
> To: ntms-hsmm@yahoogroups.com
> Sent: Wednesday, February 6, 2008 3:34:55 PM
> Subject: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?
>
> Hey Keith,
>
> Tnx for the reply.
>
> I feel silly now. I know it's FiOS and not VIOS. Do you think I can
> have them do an installation at a patch panel in my Garage? I will
> buy the cables to homerun everything to that point. The cable guys in
> the past have my attic looking like a real mess with coax running
> back and forth and splitters and amplifiers everywhere. Can you say
> TVI? Besides, TW is no longer on the dual coax system. We have TVs at
> 6 locations and a wireless router. Does very set need a STB?
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> Jerry the K.
> KD5OM
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> --- In ntms-hsmm@yahoogrou ps.com, Keith Berry wrote:
> >
> > Jerry,
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> > I think you mean FiOS which is their fiber to the home service.
> Everyone I know that has it is very pleased with the quality and
> service level. The only thing that is a concern is the ONU (Optical
> Network Unit) that converts from fiber to copper in the house has a
> battery backup. if your power is out for a very long time, then the
> battery can run down. Other than that, it is a good reliable product
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> > Remember, I work for 'the other phone guys', but we don't compete
> in your area for that type of service.
> >
> >
> > Regards,
> > Keith KE0FV
>
> [Non-text portions of this message have been removed]
>
>
>

Yahoo! Groups Links

Ron

Never miss a thing. Make Yahoo your homepage.

[Non-text portions of this message have been removed]

1161. RE: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Yahoo group: DAWG-HSMM
Date: 2008-02-06 23:02:54 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1153 Message: 1161

Jerry,

You can do that! No problem!

Each set needs an STB unless you have one of those digital ready TVs with the right credentials.

I would check with them as there may be limitations.

Frankly, their STB and controller work fine in each room of my home, so no complaints here!

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Jerry Karlovich, KD5OM
Sent: Wednesday, February 06, 2008 9:35 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Hey Keith,

Tnx for the reply.

I feel silly now. I know it's FiOS and not VIOS. Do you think I can have them do an installation at a patch panel in my Garage? I will buy the cables to homerun everything to that point. The cable guys in the past have my attic looking like a real mess with coax running back and forth and splitters and amplifiers everywhere. Can you say TVI? Besides, TW is no longer on the dual coax system. We have TVs at 6 locations and a wireless router. Does very set need a STB?

Jerry the K.
KD5OM

--- In ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com> , Keith Berry <berryko@...> wrote:
>
> Jerry,
>
> I think you mean FiOS which is their fiber to the home service. Everyone I know that has it is very pleased with the quality and service level. The only thing that is a concern is the ONU (Optical Network Unit) that converts from fiber to copper in the house has a

battery backup. if your power is out for a very long time, then the battery can run down. Other than that, it is a good reliable product from what I hear.
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> Remember, I work for 'the other phone guys', but we don't compete in your area for that type of service.
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>
> Regards,
> Keith KE0FV

[Non-text portions of this message have been removed]

1162. RE: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Yahoo group: DAWG-HSMM
Date: 2008-02-06 23:02:54 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1153 Message: 1162

Keith,

Funny finding you here!

FIOS works quite well here for data, voice and video.

I have FIOS that is fed by fiber then coax to a splitter that feeds my TV splitter and my router.

Everything from Verizon is in my ham shack. The fiber comes in the third floor wall from the pole on the street into my access panel and right to their ONU bolted to the wall.

Next to it is a shelf with their router and coaxes everywhere! I need to dress that up better. They did what I asked and left me slack as I'm still getting things arranged in here!

One of my friends has a standby power unit that you can buy for your computer. He found a decent sized one that powers everything including the router for a few days and all he did was plug Verizon's gear into it. I may do that, but I also have a 12V backup supply that I may use instead for the router as it wants 12V. The nature of the ONU supply has not been investigated yet!

We'll see!

Thanks!

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Keith Berry
Sent: Wednesday, February 06, 2008 9:41 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

I am not 100% familiar with their product, but I believe every TV set needs a STB. I think they run Cat-5 to all of the boxes, so if it ia slready run to a single point in the garage, then they should be able to put the ONU there.

Others on here who have the service can probably tell you better than I can.

Regards,
Keith

----- Original Message ----
From: "Jerry Karlovich, KD5OM" <kd5oldman@...
<mailto:kd5oldman%40gmail.com> >
To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
Sent: Wednesday, February 6, 2008 3:34:55 PM
Subject: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Hey Keith,

Tnx for the reply.

I feel silly now. I know it's FiOS and not VIOS. Do you think I can have them do an installation at a patch panel in my Garage? I will buy the cables to homerun everything to that point. The cable guys in the past have my attic looking like a real mess with coax running back and forth and splitters and amplifiers everywhere. Can you say TVI? Besides, TW is no longer on the dual coax system. We have TVs at 6 locations and a wireless router. Does very set need a STB?

Jerry the K.
KD5OM

--- In ntms-hsmm@yahoogrou ps.com, Keith Berry <berryko@... > wrote:
>
> Jerry,
>
> I think you mean FiOS which is their fiber to the home service. Everyone I know that has it is very pleased with the quality and service level. The only thing that is a concern is the ONU (Optical Network Unit) that converts from fiber to copper in the house has a battery backup. if your power is out for a very long time, then the battery can run down. Other than that, it is a good reliable product from what I hear.
>
> Remember, I work for 'the other phone guys', but we don't compete in your area for that type of service.
>
>
> Regards,
> Keith KE0FV

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1163. Re: [ntms-hsmm] Verizon Vios vs Time Warner Cable?

Yahoo group: DAWG-HSMM
Date: 2008-02-07 00:46:03 UTC
From: Kipton Moravec
Topic: 1153 Message: 1163

I made the switch. It was a nightmare switching the phone from Time Warner to Verizon. I will never deal with Time Warner again.

The FiOS has been fine for the TV. We had one problem which turned out to be a loose coax connection on the box outside.

I am not crazy about their digital recorder, I like the TiVo better. But we are living with it. Every TV needs one of their boxes or the Digital Video Recorder. I do not know about the new TVs.

The Internet is offered at two speeds. 5MB down and 15MB down (both have 200K up). I went with the $10 cheaper 5MB down and it seems faster than the advertised "6 MB down" of Time Warner. My Speed tests show I am getting close to 5 MB down. I never got that fast with the cable.

The gave us a wireless router, that plugs into the coax and has 4 Ethernet ports. They gave me the password for the box so I can modify the settings. I did not see anything I wanted to modify, but it is nice to have the ability. I placed it on top of the Entertainment Center so it was high and it reaches all over the house.

I have 6 computes hooked up wired, and my laptop and PDA's talk to the wireless no problem once you put in the codes. I don't think I can use 15 MB down, as many websites have their speed limited per user.

The voice mail still does not work after about a year, so we have given up fighting with them.

We have not lost service yet.

Kip

On Wed, 2008-02-06 at 21:00 +0000, Jerry Karlovich, KD5OM wrote:
> We're considering switching to Vios. We currently have TW high speed
> internet and digital TV. Verizon also wants to put our phone line on
> Vios. The price difference is tempting. However, I have serious issues
> with most anything having to do with Verizon due to past dealings :(.
> I don't like being lied to. Is this another smooth talking salesman or
> is the service acceptable?
>
> Jerry the K.
> KD5OM
>
>
>
>
> Yahoo! Groups Links

>
>
>
>
--
Kipton Moravec KE5NGX
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1164. Re: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Yahoo group: DAWG-HSMM
Date: 2008-02-07 14:07:34 UTC
From: Keith Berry
Topic: 1153 Message: 1164

Hey Gordon. Yeah, funny to see an east coast guy on the North Texas Microwave Society Yahoo! group. Then especially to see a T guy that you know from the east coast! LOL

73,
Keith

----- Original Message ----
From: "J. Gordon Beattie, Jr., W2TTT" <w2ttt@...>
To: ntms-hsmm@yahoogroups.com
Sent: Wednesday, February 6, 2008 5:02:54 PM
Subject: RE: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Jerry,

You can do that! No problem!

Each set needs an STB unless you have one of those digital ready TVs with the right credentials.

I would check with them as there may be limitations.

Frankly, their STB and controller work fine in each room of my home, so no complaints here!

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com] On Behalf Of Jerry Karlovich, KD5OM
Sent: Wednesday, February 06, 2008 9:35 PM
To: ntms-hsmm@yahoogrou ps.com
Subject: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Hey Keith,

Tnx for the reply.

I feel silly now. I know it's FiOS and not VIOS. Do you think I can have them do an installation at a patch panel in my Garage? I will buy the cables to homerun everything to that point. The cable guys in the past have my attic looking like a real mess with coax running back and forth and splitters and amplifiers everywhere. Can you say TVI? Besides, TW is no longer on the dual coax system. We have TVs at 6 locations and a wireless router. Does very set need a STB?

Jerry the K.
KD5OM

--- In ntms-hsmm@yahoogrou ps.com <mailto:ntms- hsmm%40yahoogrou ps.com> ,
Keith Berry <berryko@... > wrote:
>
> Jerry,
>
> I think you mean FiOS which is their fiber to the home service.
Everyone I know that has it is very pleased with the quality and
service level. The only thing that is a concern is the ONU (Optical
Network Unit) that converts from fiber to copper in the house has a
battery backup. if your power is out for a very long time, then the
battery can run down. Other than that, it is a good reliable product
from what I hear.
>
> Remember, I work for 'the other phone guys', but we don't compete
in your area for that type of service.
>
>
> Regards,
> Keith KE0FV

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1165. RE: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Yahoo group: DAWG-HSMM
Date: 2008-02-07 14:19:26 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1153 Message: 1165

Keith,

Yes it is!

I'm an eclectic guy Keith!

J

I'll try to give you a call today or tomorrow.

Vy 73,

Gordon, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Keith Berry
Sent: Thursday, February 07, 2008 2:08 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Hey Gordon. Yeah, funny to see an east coast guy on the North Texas Microwave Society Yahoo! group. Then especially to see a T guy that you know from the east coast! LOL

73,
Keith

----- Original Message ----
From: "J. Gordon Beattie, Jr., W2TTT" <w2ttt@...
<mailto:w2ttt%40att.net> >
To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
Sent: Wednesday, February 6, 2008 5:02:54 PM
Subject: RE: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Jerry,

You can do that! No problem!

Each set needs an STB unless you have one of those digital ready TVs with the right credentials.

I would check with them as there may be limitations.

Frankly, their STB and controller work fine in each room of my home, so no complaints here!

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com] On Behalf
Of Jerry Karlovich, KD5OM
Sent: Wednesday, February 06, 2008 9:35 PM
To: ntms-hsmm@yahoogrou ps.com
Subject: [ntms-hsmm] Re: Verizon Vios vs Time Warner Cable?

Hey Keith,

Tnx for the reply.

I feel silly now. I know it's FiOS and not VIOS. Do you think I can have them do an installation at a patch panel in my Garage? I will buy the cables to homerun everything to that point. The cable guys in the past have my attic looking like a real mess with coax running back and forth and splitters and amplifiers everywhere. Can you say TVI? Besides, TW is no longer on the dual coax system. We have TVs at 6 locations and a wireless router. Does very set need a STB?

Jerry the K.
KD5OM

--- In ntms-hsmm@yahoogrou ps.com <mailto:ntms- hsmm%40yahoogrou ps.com> , Keith Berry <berryko@... > wrote:
>
> Jerry,
>
> I think you mean FiOS which is their fiber to the home service. Everyone I know that has it is very pleased with the quality and service level. The only thing that is a concern is the ONU (Optical Network Unit) that converts from fiber to copper in the house has a battery backup. if your power is out for a very long time, then the battery can run down. Other than that, it is a good reliable product from what I hear.
>
> Remember, I work for 'the other phone guys', but we don't compete in your area for that type of service.
>
>
> Regards,
> Keith KE0FV

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1166. Re: Verizon FiOS vs Time Warner Cable

Yahoo group: DAWG-HSMM
Date: 2008-02-07 15:11:21 UTC
From: rddunnin@rockwellcollins.com
Topic: 1166 Message: 1166

We have had FiOS for over a year. Observations:

o FiOS service is better than cable with noticably less down time.

o The Verizon supplied FiOS router (wireless and 4 port wired Ethernet switch) has a weakling 802.11 over the air interface on some units and the wall wart has a life expectancy of about 9 months. I turned off the gimpy wireless interface and route internet from my Verizon supplied router to my trusty Linksys WRT-54G and all is well.

o The battery backup in the FiOS wall unit will probably outlast your computer UPS battery backup. Your flat panel TV will be down for the duration of the outage and the FiOS TV interface box will also be dead. Only laptop users might notice during a power failure since they go several hours if fully charged.

o Your POTS telephone may not work after the battery backup fails if you use FiOS for your phone land line. (I haven't tested this)

o Overall, I like FiOS and really enjoy the 5 mbps download speed.

RD - KC5QHH

[Non-text portions of this message have been removed]

1167. RE: [ntms-hsmm] Re: Verizon FiOS vs Time Warner Cable

Yahoo group: DAWG-HSMM
Date: 2008-02-07 15:51:18 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1166 Message: 1167

RD,

I guess in Texas the bandwidth is less than here in New Jersey.

We have 20 down and 5 up service here and I can get 20/20 and higher rates if I want to pay for it.

The shack TV will be battery backed up as will the STB here.

The laptops have access to 12V sources as well.

My big LCD TV will only run if the generator is honking away! J

One question: Where does one get a replacement or spare router with the coaxial interface?

Rather than cascade routers to get an improved wireless access, it might be nice to find an improved product.

Andy ideas?

Thanks!
Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of rddunnin@...
Sent: Thursday, February 07, 2008 3:11 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Verizon FiOS vs Time Warner Cable

We have had FiOS for over a year. Observations:

o FiOS service is better than cable with noticably less down time.

o The Verizon supplied FiOS router (wireless and 4 port wired Ethernet switch) has a weakling 802.11 over the air interface on some units and the wall wart has a life expectancy of about 9 months. I turned off the gimpy wireless interface and route internet from my Verizon supplied router to my trusty Linksys WRT-54G and all is well.

o The battery backup in the FiOS wall unit will probably outlast your computer UPS battery backup. Your flat panel TV will be down for the duration of the outage and the FiOS TV interface box will also be dead. Only laptop users might notice during a power failure since they go several hours if fully charged.

o Your POTS telephone may not work after the battery backup fails if you use FiOS for your phone land line. (I haven't tested this)

o Overall, I like FiOS and really enjoy the 5 mbps download speed.

RD - KC5QHH

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1168. Re: APPROVE -- xe1yaa wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2008-02-07 23:10:01 UTC
From: Kilgore
Topic: 1168 Message: 1168

Welcome -

We would be interested to hear what you are doing for a project.

Doug Kilgore KD5OUG

Yahoo! Groups Notification wrote:

>Hello,
>
>The following person would like to join the ntms-hsmm group:
>Email address: xe1yaa <xe1yaa@...>
>
>Comment from user:
>I just got my Licence. I'm a telecommunications engineering student and
>doing a project for this
>semester on Hinternet.
>
>
>

1169. Re: Verizon FiOS vs Time Warner Cable

Yahoo group: DAWG-HSMM
Date: 2008-02-08 15:25:14 UTC
From: rddunnin@rockwellcollins.com
Topic: 1166 Message: 1169

Granted, a better router from Verizon would be nice but there was none in view the last
time I looked. Cascading routers works and took advantage of existing assets on hand
as is the amateur way! [There has been much discussion of the virtues of the Linux
based WRT-54G in other HSMM threads so I won't go into additional detail here.]

You can get much higher theoretical rates with FiOS than copper with the planned roll out
of higher rate options coming (according to the FiOS managers I have talked with). As it
stands you can get 15 for a few shekels more. One nice benefit of fiber to the home
is you get reduced risk of line-to-ground power surge input from lightening strikes in the
neighborhood as electricity is far less likely to follow the fiber than the copper.

Now I was talking merely worst case as far as the power situation goes. As for me and
my house, I'd just plug in the 4KW solar/wind powered trailer to the 10 most critical circuits
in the house and continue operating, only using the 10KW tri-fuel generator when extra juice is
is required to keep the batteries in tip top condition. The 360 AmpHrs at 24v battery bank
stands ready and willing to do the heavy lifting. Calculating fuel on hand and the average
wind and solar resources available I should be able to withstand a 15 to 20 day power outage
keeping warm & dry while also keeping the lights, refrigerator, freezer, and the FiOS box
running.

Cheers,

RD - KC5QHH

[Non-text portions of this message have been removed]

1170. RE: [ntms-hsmm] Re: Verizon FiOS vs Time Warner Cable

Yahoo group: DAWG-HSMM
Date: 2008-02-08 15:42:54 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1166 Message: 1170

I cascade my router with DHCP turned off behind the Verizon router by tying user ports together.

Someone has asked me to test something using the second uplink tied to a Verizon router user port, but I can't get it to route.

Has anyone gotten this to work?

Do I need to turn on DHCP back on in the downstream router and allocate addresses differently?

Thanks!
Gordon

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of rddunnin@...
Sent: Friday, February 08, 2008 3:25 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Verizon FiOS vs Time Warner Cable

Granted, a better router from Verizon would be nice but there was none in view the last
time I looked. Cascading routers works and took advantage of existing assets on hand
as is the amateur way! [There has been much discussion of the virtues of the Linux
based WRT-54G in other HSMM threads so I won't go into additional detail here.]

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stands you can get 15 for a few shekels more. One nice benefit of fiber to the home
is you get reduced risk of line-to-ground power surge input from lightening strikes in the
neighborhood as electricity is far less likely to follow the fiber than the copper.

Now I was talking merely worst case as far as the power situation goes. As for me and
my house, I'd just plug in the 4KW solar/wind powered trailer to the 10 most critical circuits
in the house and continue operating, only using the 10KW tri-fuel

generator when extra juice is
is required to keep the batteries in tip top condition. The 360 AmpHrs
at 24v battery bank
stands ready and willing to do the heavy lifting. Calculating fuel on
hand and the average
wind and solar resources available I should be able to withstand a 15 to
20 day power outage
keeping warm & dry while also keeping the lights, refrigerator, freezer,
and the FiOS box
running.

Cheers,

RD - KC5QHH

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1171. RE: [ntms-hsmm] Re: Verizon FiOS vs Time Warner Cable

Yahoo group: DAWG-HSMM
Date: 2008-02-08 16:06:43 UTC
From: Ron Cole
Topic: 1166 Message: 1171

I was not happy with the Verizon provided dLink router. I found it to be unstable with weekly lockups and was very slow with dns forwarding.

I switched to a Netgear router and I the network response time was vastley improved. On top of that I got a VPN capable router which has come in handy a couple of times when I needed to get at files on the home pc from the internet.

Ron

Ron

Never miss a thing. Make Yahoo your homepage.

[Non-text portions of this message have been removed]

1172. Re: [ntms-hsmm] Re: APPROVE -- xe1yaa wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2008-02-08 16:45:38 UTC
From: Andres Arrieta
Topic: 1168 Message: 1172

Hi,
My project is for Digital Communications and Communications Electronics class. The idea at the beginning was WIMAX, and being a radio amateur I knew there had to be something like WIMAX on HAM frecs. The first step is working with my teammates to do a basic peer to peer communication using HSMM on 5GHz. After this is presented and semester is over I was thinking to keep working on it and move it to 2.4GHz where most commercial wifi cards are and see if COFETEL (Mexican FCC) allows us to put a small LAN (For what I could see 3 to 5 km if more better) which would be connected to one of the University's server. The server should had educational information for children, youngsters and adults like health issues. Opened to any one within coverage to inform themselves.
So there you go it is divided into 2 projects, the one mandatory for classes and the other as the University Radio Club.
The final really big project seems a nice way in which students being HAM or not could help their community, it is really complicated as I have seen but I think is worth it.

-Andres

----- Original Message ----
From: Kilgore <kilgore1317@...>
To: ntms-hsmm@yahoogroups.com
Sent: Thursday, February 7, 2008 5:10:01 PM
Subject: [ntms-hsmm] Re: APPROVE -- xe1yaa <xe1yaa@...> wants to join ntms-hsmm

Welcome -

We would be interested to hear what you are doing for a project.

Doug Kilgore KD5OUG

Yahoo! Groups Notification wrote:

>Hello,

>

>The following person would like to join the ntms-hsmm group:

>Email address: xe1yaa <xe1yaa@yahoo. com>

>

>Comment from user:

>I just got my Licence. I'm a telecommunications engineering student and

>doing a project for this

>semester on Hinternet.

```
>

>

>

<!--

#ygrp-mkp{
border:1px solid #d8d8d8;font-family:Arial;margin:14px 0px;padding:0px 14px;}
#ygrp-mkp hr{
border:1px solid #d8d8d8;}
#ygrp-mkp #hd{
color:#628c2a;font-size:85%;font-weight:bold;line-height:122%;margin:10px 0px;}
#ygrp-mkp #ads{
margin-bottom:10px;}
#ygrp-mkp .ad{
padding:0 0;}
#ygrp-mkp .ad a{
color:#0000ff;text-decoration:none;}
-->

<!--

#ygrp-sponsor #ygrp-lc{
font-family:Arial;}
#ygrp-sponsor #ygrp-lc #hd{
margin:10px 0px;font-weight:bold;font-size:78%;line-height:122%;}
#ygrp-sponsor #ygrp-lc .ad{
margin-bottom:10px;padding:0 0;}
-->

<!--

#ygrp-mlmsg {font-size:13px;font-family:arial, helvetica, clean, sans-serif;}
#ygrp-mlmsg table {font-size:inherit;font:100%;}
#ygrp-mlmsg select, input, textarea {font:99% arial, helvetica, clean, sans-serif;}
#ygrp-mlmsg pre, code {font:115% monospace;}
#ygrp-mlmsg * {line-height:1.22em;}
#ygrp-text{
font-family:Georgia;
}
#ygrp-text p{
margin:0 0 1em 0;}
#ygrp-tpmsgs{
font-family:Arial;
clear:both;}
#ygrp-vitnav{
padding-top:10px;font-family:Verdana;font-size:77%;margin:0;}
#ygrp-vitnav a{
padding:0 1px;}
#ygrp-actbar{
clear:both;margin:25px 0;white-space:nowrap;color:#666;text-align:right;}
```

```
#ygrp-actbar .left{
float:left;white-space:nowrap;}
..bld{font-weight:bold;}
#ygrp-grft{
font-family:Verdana;font-size:77%;padding:15px 0;}
#ygrp-ft{
font-family:verdana;font-size:77%;border-top:1px solid #666;
padding:5px 0;
}
#ygrp-mlmsg #logo{
padding-bottom:10px;}

#ygrp-vital{
background-color:#e0ecee;margin-bottom:20px;padding:2px 0 8px 8px;}
#ygrp-vital #vithd{
font-size:77%;font-family:Verdana;font-weight:bold;color:#333;text-transform:uppercase;}
#ygrp-vital ul{
padding:0;margin:2px 0;}
#ygrp-vital ul li{
list-style-type:none;clear:both;border:1px solid #e0ecee;
}
#ygrp-vital ul li .ct{
font-weight:bold;color:#ff7900;float:right;width:2em;text-align:right;padding-right:.5em;}
#ygrp-vital ul li .cat{
font-weight:bold;}
#ygrp-vital a{
text-decoration:none;}

#ygrp-vital a:hover{
text-decoration:underline;}

#ygrp-sponsor #hd{
color:#999;font-size:77%;}
#ygrp-sponsor #ov{
padding:6px 13px;background-color:#e0ecee;margin-bottom:20px;}
#ygrp-sponsor #ov ul{
padding:0 0 0 8px;margin:0;}
#ygrp-sponsor #ov li{
list-style-type:square;padding:6px 0;font-size:77%;}
#ygrp-sponsor #ov li a{
text-decoration:none;font-size:130%;}
#ygrp-sponsor #nc{
background-color:#eee;margin-bottom:20px;padding:0 8px;}
#ygrp-sponsor .ad{
padding:8px 0;}
#ygrp-sponsor .ad #hd1{
font-family:Arial;font-weight:bold;color:#628c2a;font-size:100%;line-height:122%;}
#ygrp-sponsor .ad a{
text-decoration:none;}
#ygrp-sponsor .ad a:hover{
text-decoration:underline;}
```

```
#ygrp-sponsor .ad p{
margin:0;}
o{font-size:0;}
..MsoNormal{
margin:0 0 0 0;}
#ygrp-text tt{
font-size:120%;}
blockquote{margin:0 0 0 4px;}
..replbq{margin:4;}
-->
```

Looking for last minute shopping deals?
Find them fast with Yahoo! Search.
http://tools.search.yahoo.com/newsearch/category.php?category=shopping

[Non-text portions of this message have been removed]

1173. RE: [ntms-hsmm] Re: Verizon FiOS vs Time Warner Cable

Yahoo group: DAWG-HSMM
Date: 2008-02-08 15:39:41 UTC
From: John Barrett
Topic: 1166 Message: 1173

You have the option of setting your Verizon router to bridge mode, and setting your better router to to DHCP. eliminates the double NAT and gives you a single point of control for DMZ, Port Forwarding, etc. I'm doing that with the telco DSL router and my linksys.. makes life a lot easier :-)

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of rddunnin@...
Sent: Friday, February 08, 2008 9:25 AM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Verizon FiOS vs Time Warner Cable

Granted, a better router from Verizon would be nice but there was none in view the last
time I looked. Cascading routers works and took advantage of existing assets on hand
as is the amateur way! [There has been much discussion of the virtues of the Linux
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stands you can get 15 for a few shekels more. One nice benefit of fiber to the home
is you get reduced risk of line-to-ground power surge input from lightening strikes in the
neighborhood as electricity is far less likely to follow the fiber than the copper.

Now I was talking merely worst case as far as the power situation goes. As for me and
my house, I'd just plug in the 4KW solar/wind powered trailer to the 10 most critical circuits
in the house and continue operating, only using the 10KW tri-fuel generator when extra juice is
is required to keep the batteries in tip top condition. The 360 AmpHrs at 24v battery bank
stands ready and willing to do the heavy lifting. Calculating fuel on hand and the average
wind and solar resources available I should be able to withstand a 15 to 20 day power outage
keeping warm & dry while also keeping the lights, refrigerator, freezer,

and the FiOS box
running.

Cheers,

RD - KC5QHH

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1174. RE: [ntms-hsmm] Re: Verizon FiOS vs Time Warner Cable

Yahoo group: DAWG-HSMM
Date: 2008-02-08 17:27:00 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1166 Message: 1174

John,

Thanks!

I'll do that!

Bridge mode is definitely the option!

Thanks again & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of John Barrett
Sent: Friday, February 08, 2008 3:40 PM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Re: Verizon FiOS vs Time Warner Cable

You have the option of setting your Verizon router to bridge mode, and
setting your better router to to DHCP. eliminates the double NAT and gives
you a single point of control for DMZ, Port Forwarding, etc. I'm doing that
with the telco DSL router and my linksys.. makes life a lot easier :-)

From: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
[mailto:ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>] On
Behalf
Of rddunnin@... <mailto:rddunnin%40rockwellcollins.com>
Sent: Friday, February 08, 2008 9:25 AM
To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
Subject: [ntms-hsmm] Re: Verizon FiOS vs Time Warner Cable

Granted, a better router from Verizon would be nice but there was none in
view the last
time I looked. Cascading routers works and took advantage of existing
assets on hand
as is the amateur way! [There has been much discussion of the virtues of
the Linux
based WRT-54G in other HSMM threads so I won't go into additional detail
here.]

You can get much higher theoretical rates with FiOS than copper with the
planned roll out
of higher rate options coming (according to the FiOS managers I have
talked with). As it

stands you can get 15 for a few shekels more. One nice benefit of fiber to the home
is you get reduced risk of line-to-ground power surge input from lightening strikes in the
neighborhood as electricity is far less likely to follow the fiber than the copper.

Now I was talking merely worst case as far as the power situation goes. As for me and
my house, I'd just plug in the 4KW solar/wind powered trailer to the 10 most critical circuits
in the house and continue operating, only using the 10KW tri-fuel generator when extra juice is
is required to keep the batteries in tip top condition. The 360 AmpHrs at 24v battery bank
stands ready and willing to do the heavy lifting. Calculating fuel on hand and the average
wind and solar resources available I should be able to withstand a 15 to 20 day power outage
keeping warm & dry while also keeping the lights, refrigerator, freezer, and the FiOS box
running.

Cheers,

RD - KC5QHH

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1175. RE: [ntms-hsmm] Re: Verizon FiOS vs Time Warner Cable

Yahoo group: DAWG-HSMM
Date: 2008-02-08 17:27:39 UTC
From: Ron Cole
Topic: 1166 Message: 1175

Just dump the Verizon Router any decent router supports PPOE on the WAN port.

John Barrett <ke5crp1@...> wrote: You have the option of setting your Verizon router to bridge mode, and
setting your better router to to DHCP. eliminates the double NAT and gives
you a single point of control for DMZ, Port Forwarding, etc. I'm doing that
with the telco DSL router and my linksys.. makes life a lot easier :-)

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of rddunnin@...
Sent: Friday, February 08, 2008 9:25 AM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Verizon FiOS vs Time Warner Cable

Granted, a better router from Verizon would be nice but there was none in
view the last
time I looked. Cascading routers works and took advantage of existing
assets on hand
as is the amateur way! [There has been much discussion of the virtues of
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Cheers,

RD - KC5QHH

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[Non-text portions of this message have been removed]

Yahoo! Groups Links

Ron

Looking for last minute shopping deals? Find them fast with Yahoo! Search.

[Non-text portions of this message have been removed]

1176. RE: [ntms-hsmm] Re: Verizon FiOS vs Time Warner Cable

Yahoo group: DAWG-HSMM
Date: 2008-02-08 16:07:03 UTC
From: John Barrett
Topic: 1166 Message: 1176

Second uplink ?? like dual FIOS connections ?? You need a Linux box with multiple network cards, or some very fancy hacking on a WRT54 to enable network uplink balancing. people used to pull that trick with multiple modem connections.. searching for info about balanced modem connections might help you figure out how to make it happen on the WRT54

There should ONE and ONLY ONE DHCP server for any given network segment (unless you are all static IP on that segment - then no DHCP is ok)

I think I need a better picture of what you are trying to accomplish to work out a solution :-)

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of J. Gordon Beattie, Jr., W2TTT
Sent: Friday, February 08, 2008 9:43 AM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Re: Verizon FiOS vs Time Warner Cable

I cascade my router with DHCP turned off behind the Verizon router by tying user ports together.

Someone has asked me to test something using the second uplink tied to a Verizon router user port, but I can't get it to route.

Has anyone gotten this to work?

Do I need to turn on DHCP back on in the downstream router and allocate addresses differently?

Thanks!
Gordon

201.314.6964

From: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com [mailto:ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com] On Behalf
Of rddunnin@rockwellco <mailto:rddunnin%40rockwellcollins.com> llins.com
Sent: Friday, February 08, 2008 3:25 PM
To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
Subject: [ntms-hsmm] Re: Verizon FiOS vs Time Warner Cable

Granted, a better router from Verizon would be nice but there was none in view the last
time I looked. Cascading routers works and took advantage of existing assets on hand

as is the amateur way! [There has been much discussion of the virtues of the Linux based WRT-54G in other HSMM threads so I won't go into additional detail here.]

You can get much higher theoretical rates with FiOS than copper with the planned roll out of higher rate options coming (according to the FiOS managers I have talked with). As it stands you can get 15 for a few shekels more. One nice benefit of fiber to the home is you get reduced risk of line-to-ground power surge input from lightening strikes in the neighborhood as electricity is far less likely to follow the fiber than the copper.

Now I was talking merely worst case as far as the power situation goes. As for me and my house, I'd just plug in the 4KW solar/wind powered trailer to the 10 most critical circuits in the house and continue operating, only using the 10KW tri-fuel generator when extra juice is is required to keep the batteries in tip top condition. The 360 AmpHrs at 24v battery bank stands ready and willing to do the heavy lifting. Calculating fuel on hand and the average wind and solar resources available I should be able to withstand a 15 to 20 day power outage keeping warm & dry while also keeping the lights, refrigerator, freezer, and the FiOS box running.

Cheers,

RD - KC5QHH

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[Non-text portions of this message have been removed]

1177. Verizon Fios Routers & Set Top Boxes

Yahoo group: DAWG-HSMM
Date: 2008-02-09 15:30:21 UTC
From: Allan R. Batteiger
Topic: 1177 Message: 1177

Greetings
I thought I would add my 2 cents to the discussion about Verizion FIOS. I have the standard 15/2 connection here. Since I was an early only to hook up my setup is a little different. My ONT has 4 POTS ports on it vs 2 ports on the newer versions. Also my internet connection used a MoCA to Ethernet adapter to attach to the router. You can replace the inexpensive D-Link router with a much better router and still hook up you STB's to the internet (for the guide and VOD) if you can get from Verizion or elsewhere a MoCA to Ethernet adapter. MoCA is the IP protocol over coax used by the set top boxes. I currently have a Business class Linksys / Cisco router & firewall hooked up to the FIOS internet connection. I consistently get over 10mb connections to local servers. The MoCA adapter is connected to one of the Firewall ports and is configured to route to the WAN vs the rest of the LAN.

Allan
WB5QNG

[Non-text portions of this message have been removed]

1178. Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-09 19:10:26 UTC
From: John Champa
Topic: 1178 Message: 1178

Sorry folks. I don't often do cross-postings, but this one is worth it:

Not really meant to be forwarded, but I badly wanted to point out Item #4 in Tony's list because it relates to previous discussions here in the digital realm...The Aussies have added the allowance of ENCRYPTION directly to their Amateur Radio regulations for VERY SANE PURPOSES... FINALLY!Now if we could just get the FCC to follow suit...Nate WY0X-------- Original Message --------Subject: [irlp] Changes to Australian regulations, some of which affect IRLP and EcholinkDate: Fri, 08 Feb 2008 13:07:05 +1100From: Tony Langdon, VK3JED <vk3jed@...>Reply-To: irlp@yahoogroups.comTo: irlp@yahoogroups.com, echolink@yahoogroups.comJust announced by the ACMA are changes to the Australian AmateurLCD. Several of these changes are relevant to the IRLP and Echolinkcommunity. The full news releases are on the WIA website(www.wia.org.au), but I'll try and post a summary of myinterpretations that appear to be particularly relevant.Note that the Internet is considered a "public telecommunicationsnetwork", along with PSTN.1. Advanced, Standard and Repeater stations may operateautomatically when connected to a public telecommunications network,provided the licensee has implemented reasonable measures to ensurethat only appropriately licensed persons access the station totransmit signals to another amateur station. Both IRLP and Echolinkimplement what are deemed "reasonable measures". Also, this appearsto allow phone patches under certain conditions - The WIAinterpretation is this is to bring the rules in line with accepted practice.2. Advanced and Standard (but not repeater) licensees must warnpersons connecting from a public telecommunications network thattheir conversation may be lawfully intercepted by other persons (i.e.amateurs and SWLs listening on RF), and advise them to disconnect ifthey do not wish to proceed under those conditions. While this mightseem strange, this is a result of our Telecommunications Act,combined with the new regulations allowing unqualified people (i.e.non hams) to speak via a station controlled by a licensedham. Obviously, Echolink PC users know they can be monitored by SWLsif there is an RF link... Repeaters were exempted on the grounds ofpracticality.3. Australian stations may transmit third party messages to amateursin other countries, though the amateur in the other country may stillbe bound by their regulations and may not be permitted to exchangesuch messages.4. Transmissions may be encoded to obscure the meaning of signals(i.e. encrypted) under the following conditions ONLY:- Command and control of an amateur space station- Command and control of an unattended amateur station- emergency communications and related training exercises.Looks like I can now implement SSH over packet for control of theIRLP node and repeater...Another important change is that Foundation licensees can NOT connecttheir station directly to a telecommunications network. This meansthey can NOT operate an Echolink -L station or an IRLP nodethemselves. I know there are a number of "F" calls operatingEcholink links. Unfortunately, they will have to either switch offor upgrade to at least Standard, but this change is perfectlyreasonable, given the scope of a Foundation license. Similarly,Foundation licensees cannot operate (i.e. be the trustee of) arepeater station. Of course, they can still use repeaters.However, as before, Foundation licensees can _use_ an IRLP orEcholink node, provided it's on a frequency they're allowed to use,and they can access Echolink from their PC.What I am not quite sure on yet is whether nodes operating on bandsoutside Foundation allocations can be legally used by them via IRLPor Echolink (i.e. they access them from a PC or a node on a band theycan use). At this stage, my guess is

"maybe". This means I _may_ beable to put 23cm on the air and run IRLP or Echolink on the system (away to utilise a way underutilised band).Other points of interest:We now have specs on spurious emission limits (finally!)We now have a Class Licence for visiting amateurs (effective Feb 142008). This permit allows overseas amateurs to operate in Australiafor up to 90 days using their home call "portable VKn"(homecall/VKn). There are 5 levels of visitor license, and detailswill be posted on the ACMA website in the near future. No morehaving to obtain a VK ticket before visiting. :)Anyway, as I said at the top, visit www.wia.org.au and check out thenews releases for more information.73 de VK3JEDhttp://vkradio.com

[Non-text portions of this message have been removed]

1179. Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-12 16:51:10 UTC
From: rddunnin@rockwellcollins.com
Topic: 1178 Message: 1179

Transmissions may be encoded to obscure the meaning of signals
(i.e. encrypted) under the following conditions ONLY:
- Command and control of an amateur space station
- Command and control of an unattended amateur station
- emergency communications and related training exercises.

Excellent. We need to get a petition before the FCC on this.

John Champa <k8ocl@...>
Sent by: <radioskyart@...>
02/09/2008 01:10 PM

To
<ntms-hsmm@yahoogroups.com>
cc

Subject
Encryption

Sorry folks. I don't often do cross-postings, but this one is worth it:

Not really meant to be forwarded, but I badly wanted to point out Item
#4 in Tony's list because it relates to previous discussions here in the
digital realm...

The Aussies have added the allowance of ENCRYPTION directly to their
Amateur Radio regulations for VERY SANE PURPOSES... FINALLY!

Now if we could just get the FCC to follow suit...

Nate WY0X

-------- Original Message --------
Subject: [irlp] Changes to Australian regulations, some of which affect
IRLP and Echolink
Date: Fri, 08 Feb 2008 13:07:05 +1100
From: Tony Langdon, VK3JED <vk3jed@...>
Reply-To: irlp@yahoogroups.com
To: irlp@yahoogroups.com, echolink@yahoogroups.com

Just announced by the ACMA are changes to the Australian Amateur
LCD. Several of these changes are relevant to the IRLP and Echolink
community. The full news releases are on the WIA website
(www.wia.org.au), but I'll try and post a summary of my
interpretations that appear to be particularly relevant.

Note that the Internet is considered a "public telecommunications
network", along with PSTN.

1. Advanced, Standard and Repeater stations may operate automatically when connected to a public telecommunications network, provided the licensee has implemented reasonable measures to ensure that only appropriately licensed persons access the station to transmit signals to another amateur station. Both IRLP and Echolink implement what are deemed "reasonable measures". Also, this appears to allow phone patches under certain conditions - The WIA interpretation is this is to bring the rules in line with accepted practice.

2. Advanced and Standard (but not repeater) licensees must warn persons connecting from a public telecommunications network that their conversation may be lawfully intercepted by other persons (i.e. amateurs and SWLs listening on RF), and advise them to disconnect if they do not wish to proceed under those conditions. While this might seem strange, this is a result of our Telecommunications Act, combined with the new regulations allowing unqualified people (i.e. non hams) to speak via a station controlled by a licensed ham. Obviously, Echolink PC users know they can be monitored by SWLs if there is an RF link... Repeaters were exempted on the grounds of practicality.

3. Australian stations may transmit third party messages to amateurs in other countries, though the amateur in the other country may still be bound by their regulations and may not be permitted to exchange such messages.

4. Transmissions may be encoded to obscure the meaning of signals (i.e. encrypted) under the following conditions ONLY:
- Command and control of an amateur space station
- Command and control of an unattended amateur station
- emergency communications and related training exercises.

Looks like I can now implement SSH over packet for control of the IRLP node and repeater...

Another important change is that Foundation licensees can NOT connect their station directly to a telecommunications network. This means they can NOT operate an Echolink -L station or an IRLP node themselves. I know there are a number of "F" calls operating Echolink links. Unfortunately, they will have to either switch off or upgrade to at least Standard, but this change is perfectly reasonable, given the scope of a Foundation license. Similarly, Foundation licensees cannot operate (i.e. be the trustee of) a repeater station. Of course, they can still use repeaters.

However, as before, Foundation licensees can _use_ an IRLP or Echolink node, provided it's on a frequency they're allowed to use, and they can access Echolink from their PC.

What I am not quite sure on yet is whether nodes operating on bands outside Foundation allocations can be legally used by them via IRLP or Echolink (i.e. they access them from a PC or a node on a band they

can use). At this stage, my guess is "maybe". This means I _may_ be able to put 23cm on the air and run IRLP or Echolink on the system (a way to utilise a way underutilised band).

Other points of interest:

We now have specs on spurious emission limits (finally!)

We now have a Class Licence for visiting amateurs (effective Feb 14 2008). This permit allows overseas amateurs to operate in Australia for up to 90 days using their home call "portable VKn" (homecall/VKn). There are 5 levels of visitor license, and details will be posted on the ACMA website in the near future. No more having to obtain a VK ticket before visiting. :)

Anyway, as I said at the top, visit www.wia.org.au and check out the news releases for more information.

73 de VK3JED
http://vkradio.com

[Non-text portions of this message have been removed]

1180. RE: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-12 20:18:02 UTC
From: John Champa
Topic: 1178 Message: 1180

Randy, According to the interpretation the HSMM WG got from the FCC Enforcement Branchvia Chris Imlay just prior to our closing shop was that Radio Amateurs using 802.11-typemodulation under Part 97 could use WEP, WPA, etc. as our intent or purpose (key operative words!) is to provide authentication and thus protect our networks from Part 15 intrusions...and not to obsure the meaning of the signals. Under the following conditions: (1) Use only frequencies above 50 MHz.(2) No foreign / international traffic is permitted(3) The type of encryption used must be standardized and published(4) The specific encryption key used must be recorded in the station log book These guidelines will be provided in somewhat more detail in the soon to be release (March 1st) ARRL VHF Digital Handbook, Chapter 7, HSMM Radio. 73,John, K8OCL

To: k8ocl@...: ntms-hsmm@yahoogroups.com; radioskyart@...: Re: EncryptionFrom: rddunnin@...: Tue, 12 Feb 2008 10:51:10 -0600Transmissions may be encoded to obscure the meaning of signals(i.e. encrypted) under the following conditions ONLY:- Command and control of an amateur space station- Command and control of an unattended amateur station- emergency communications and related training exercises. Excellent. We need to get a petition before the FCC on this.

John Champa <k8ocl@...> Sent by: <radioskyart@...>
02/09/2008 01:10 PM

To
<ntms-hsmm@yahoogroups.com>

cc

Subject
Encryption

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[Non-text portions of this message have been removed]

1181. Re: [ntms-hsmm] RE: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-12 21:45:01 UTC
From: Walt DuBose
Topic: 1178 Message: 1181

Two other comments and I was also in on the session where the HSMM WG was advised of the FCC explanation.

As a retired government employee who worked extensively with government agencies, the two key words are "intent" and "Foreign countries" (nations.

If you read Part 97, the word "intent" is in there...clearly the FCC did not and does not think that the normal use of encryption is to obscure the meaning of the text...they DO trust us to monitor and to the extent possible "police" and "regualte" our individual and corporate operation.

The other word.."foreign traffic is present and we should already understand that we cannot put out a traffic/message/text to for some other nation that might cause their amateur radio operator to violate that countries communications regulation.

Their reference to 50 MHz and above I believe is aimed at the above paragraph since 50 MHz and above are not generally used for foreign communications exchanges.

AS a retired government employee, I think that the verbal word from the FCC was magnanimous considering the consequences of the FCC providing a written opinion.

73,

Walt/K5YFW

John Champa wrote:
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> John Champa <k8ocl@...> Sent by: <radioskyart@...>
> 02/09/2008 01:10 PM
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> <ntms-hsmm@yahoogroups.com>
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> a
> way underutilised band).Other points of interest:We now have specs on spurious emission limits (finally!)We now have a Class Licence for visiting amateurs (effective Feb 142008). This permit allows overseas amateurs to operate in Australiafor up to 90 days using their home call "portable VKn"(homecall/VKn). There are 5 levels of visitor license, and detailswill be posted on the ACMA website in the near future. No morehaving to obtain a VK ticket before visiting. :)Anyway, as I said at the top, visit www.wia.org.au and check out thenews releases for more information.73 de VK3JEDhttp://vkradio.com
>

1182. Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-13 20:32:22 UTC
From: kc2mmi_whitelisted email
Topic: 1178 Message: 1182

"Transmissions may be encoded to obscure the meaning of signals"

Actually, you could say that the tightwads at the FCC already are ahead of the Ozzies on this one. IIRC a statute normally will held held by the courts to the strict wording of the statute. And since the FCC foolishly said "to obscure the meaning" that means we already ARE ALLOWED encryption for any and all other purposes. Whether this was the FCC's intent or not.

Now, it could be a bit of hassle defending that point of view <G> but the FCC has also gone on record as saying that encryption is allowed if the keys are sent to the FCC or otherwise "published". You could email them to the NSA and fulfill that requirement, since the NSA already is legally required to monitor everything in the ethereal realm.

It sure would be nice if the FCC bothered to hire Ynglish majors and follow the "plain english" laws, but as long as they've been so kind as to leave the barn doors open...I wouldn't worry too much about it. Just make Real Damn Sure that before you key down, you send the NSA a list of encryption keys and/or you log your reason for encryption, as it is something other than "obscuring". For instance: *securing* from criminal eavesdroppers, during a mass casualty/evacuation response. Or *protecting* a national security interest. Or...surely, there must be others reasons, because if the sole purpose of "encyrpting" was "obscuring", it would have been redundant of the FCC to use both terms in the same sentence. And that would be held against them.

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http://www.bluebottle.com/tag/1

1183. RE: [ntms-hsmm] Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-13 21:05:40 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1178 Message: 1183

Question?

To whom at the FCC or NSA would you send your keys and rationale?

Just a curiosity.

73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of kc2mmi_whitelisted email
Sent: Wednesday, February 13, 2008 8:32 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Encryption

"Transmissions may be encoded to obscure the meaning of signals"

Actually, you could say that the tightwads at the FCC already are ahead of
the Ozzies on this one. IIRC a statute normally will held held by the courts

to the strict wording of the statute. And since the FCC foolishly said "to
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[Non-text portions of this message have been removed]

1184. RE: [ntms-hsmm] Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-13 21:22:51 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1178 Message: 1184

Perhaps we would go to a web site: www.openkimono.gov to register our logs?

J

73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of J. Gordon Beattie, Jr., W2TTT
Sent: Wednesday, February 13, 2008 9:06 PM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Re: Encryption

Question?

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Just a curiosity.

73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com> [mailto:ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>] On Behalf
Of kc2mmi_whitelisted email
Sent: Wednesday, February 13, 2008 8:32 PM
To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
Subject: [ntms-hsmm] Re: Encryption

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[Non-text portions of this message have been removed]

1185. RE: [ntms-hsmm] Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-14 02:07:27 UTC
From: John Champa
Topic: 1178 Message: 1185

Don't send keys to anybody, at least not routinely. And, don't publish them either, unless you want to, or it is club policy etc. For example, some clubs treat their HSMM network WEP key for Field Day, etc. much as other clubs treat their repeater's PL tone. That is their choice, but it is no longer a requirement.

All that is currently required is to have the key available if questioned by an OO, etc. regarding traffic content, etc. Here's the background:

The FCC direction changed. Initially the keys had to be published.
But for the keys to be meaningful for the intent of protecting the network, they can not be published. That would be somewhat disingenuous to publish the key. Rather like putting it above the door sill, so to speak (HI).

Thus HSMM WG shot back: "That's simply 'security by obscurity' and not much help!"
So the FCC later withdrew that requirement and changed it to simply record it in the official station log book.

The FCC Enforcement Branch obviously intends that Amateurs have the type of encryption and the key used available if ever there is any question about the nature of the traffic content on a Part 97 network.

Another change? I have stated that when encrypting traffic that your call sign must always be sent "in the clear" (unencrypted). But Walt reminded me that the WG published that as a "good operating practice". It was not stated as an FCC requirement by the Enforcement Branch. Guess I need to review the minutes of the conference again. If true, that is my error, and I regret the mistake!

73,
John, K8OCL

"The doctrines of democracy deal with the aspirations of men's souls, butthe application deals with things. One hand in somebody else's pocket andone on your gun, and you are highly civilized...Desire enough for your ownuse only, and you are a heathen. Civilized people have things to show totheir neighbors." Autobiography of Zora Neale Hurston.

To: ntms-hsmm@yahoogroups.comFrom: w2ttt@...: Wed, 13 Feb 2008 21:22:51 +0000Subject: RE: [ntms-hsmm] Re: Encryption

Perhaps we would go to a web site: www.openkimono.gov to register ourlogs?J73,Gordon Beattie, W2TTT201.314.6964From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On BehalfOf J. Gordon Beattie, Jr., W2TTTSent: Wednesday, February 13, 2008 9:06 PMTo: ntms-hsmm@yahoogroups.comSubject: RE: [ntms-hsmm] Re: EncryptionQuestion?To whom at the FCC or NSA would you send your keys and rationale?Just a curiosity.73,Gordon Beattie, W2TTT201.314.6964From: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>[mailto:ntms-hsmm@yahoogroups.com

<mailto:ntms-hsmm%40yahoogroups.com>] OnBehalfOf kc2mmi_whitelisted emailSent: Wednesday, February 13, 2008 8:32 PMTo: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com> Subject: [ntms-hsmm] Re: Encryption"Transmissions may be encoded to obscure the meaning of signals"Actually, you could say that the tightwads at the FCC already are ahead of the Ozzies on this one. IIRC a statute normally will held held by the courtsto the strict wording of the statute. And since the FCC foolishly said "to obscure the meaning" that means we already ARE ALLOWED encryption for any and all other purposes. Whether this was the FCC's intent or not.Now, it could be a bit of hassle defending that point of view <G> but the FCC has also gone on record as saying that encryption is allowed if the keysare sent to the FCC or otherwise "published". You could email them to the NSA and fulfill that requirement, since the NSA already is legally required to monitor everything in the ethereal realm.It sure would be nice if the FCC bothered to hire Ynglish majors and follow the "plain english" laws, but as long as they've been so kind as to leave the barn doors open...I wouldn't worry too much about it. Just make Real Damn Sure that before you key down, you send the NSA a list of encryption keys and/or you log your reason for encryption, as it is something other than "obscuring". For instance: *securing* from criminal eavesdroppers, during a mass casualty/evacuation response. Or *protecting* a national security interest. Or...surely, there must be others reasons, because if thesole purpose of "encyrpting" was "obscuring", it would have been redundant of the FCC to use both terms in the same sentence. And that would be held against them.----------Get a free email address with REAL anti-spam protection.http://www.bluebottle.com/tag/1[Non-text portions of this message have been removed][Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1186. Re: [ntms-hsmm] Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-14 03:50:57 UTC
From: Walt DuBose
Topic: 1178 Message: 1186

First, the FCC NEVER SAID or has gone on record saying..."that encryption is allowed if the keys are sent to the FCC or otherwise "published". This came out of talks with the FCC on the meaning of if the intent is to obscure the meaning of the text.

The FCC only pointed to Part 97 where it says that encryption cannot be used to obscure the meaning of the text.

No keys, etc. were communted on.

Now the reasoning for this is quite plain if you look at the wording...encryption can't be used to obscure the meaning of the

Actual verbage..."messages encoded for the purpose of obscuring their meaning, except as otherwise provided herein; "

Its very clear, if you message is encoded for the purpose of obscuring their meaning, its illegal. If you purpose is to NOT obscure their meaning, its Ok.

What so hard about that? Why does it take more explination from the FCC.
The problem is that for years hams have been saying that encoding a message was illegal and it was never that way.

Walt/K5YFW

kc2mmi_whitelisted email wrote:
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> of the FCC to use both terms in the same sentence. And that would be held
> against them.
>

1187. Re: [ntms-hsmm] Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-14 03:57:54 UTC
From: Walt DuBose
Topic: 1178 Message: 1187

Please understand that discussion with another ham over coffee...even if they are in the FCC are just talk...."how do you feel about encryption on the ham bands Fred? Oh, just look at Part 97... Ok we can encode for control, etc; but, what about the text? Just look at Part 97 Bob."

The ARRL and HSMM WG got the picture. But the FCC never said anything that you could "quote."

To me it was a "hey stupid, can't you read English." Duh... I read them.

Walt/K5YFW

John Champa wrote:
> Don't send keys to anybody, at least not routinely. And, don't publish
> them either, unless you want to, or it is club policy etc. For example, some
> clubs treat their HSMM network WEP key for Field Day, etc. much as other
> clubs treat their repeater's PL tone. That is their choice, but it is no longer
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> All that is currently required is to have the key available if questioned by an
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> But for the keys to be meaningful for the intent of protecting the network,
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> the key. Rather like putting it above the door sill, so to speak (HI).
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> So the FCC later withdrew that requirement and changed it to simply record it in the
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> of the traffic content on a Part 97 network.
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> Another change? I have stated that when encrypting traffic that your call sign
> must always be sent "in the clear" (unencrypted). But Walt reminded me that the
> WG published that as a "good operating practice". It was not stated as an FCC
> requirement by the Enforcement Branch. Guess I need to review the minutes
> of the conference again. If true, that is my error, and I regret the mistake!
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> 73,
> John, K8OCL
>
>
> "The doctrines of democracy deal with the aspirations of men's souls, butthe application

deals with things. One hand in somebody else's pocket andone on your gun, and you are highly civilized...Desire enough for your ownuse only, and you are a heathen. Civilized people have things to show totheir neighbors." Autobiography of Zora Neale Hurston.
>
>
> To: ntms-hsmm@yahoogroups.comFrom: w2ttt@...: Wed, 13 Feb 2008 21:22:51 +0000Subject: RE: [ntms-hsmm] Re: Encryption
>
>
>
>
> Perhaps we would go to a web site: www.openkimono.gov to register ourlogs?J73,Gordon Beattie, W2TTT201.314.6964From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On BehalfOf J. Gordon Beattie, Jr., W2TTTSent: Wednesday, February 13, 2008 9:06 PMTo: ntms-hsmm@yahoogroups.comSubject: RE: [ntms-hsmm] Re: EncryptionQuestion?To whom at the FCC or NSA would you send your keys and rationale?Just a curiosity.73,Gordon Beattie, W2TTT201.314.6964From: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>[mailto:ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>] OnBehalfOf kc2mmi_whitelisted emailSent: Wednesday, February 13, 2008 8:32 PMTo: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com> Subject: [ntms-hsmm] Re: Encryption"Transmissions may be encoded to obscure the meaning of signals"Actually, you could say that the tightwads at the FCC already are ahead of the Ozzies on this one. IIRC a statute normally will held held by the cou
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them.----------Get a free email address with REAL anti-spam protection.http://www.bluebottle.com/tag/1[Non-text portions of this message have been removed][Non-text portions of this message have been removed]
>
>

1188. Re: [ntms-hsmm] Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-14 05:59:14 UTC
From: Johnny KD5LWU
Topic: 1178 Message: 1188

I don't have the technical jargon to state this precisely but....it seems to me if a piece of equipment is designed to send a signal a certain way and you don't alter that factory intended purpose then it is not encryption in the sense of trying to alter something so that others cannot interpret it. FCC and others are very capable of reading and understanding anything that a WiFi signal is able to send as standard from factory equipment. Simply if there are other machines/software out there that are designed to read what you are transmitting then you are not trying to hide anything. I believe there are programs that are quite capable of reading/cracking/hacking encrypted transmissions so just exactly how is it that one is actually hiding anything? Keys just make it more difficult for those who are malicious in intent but nothing is impossible. Please forgive me if I am not on track with this message 73 Johnny KD5LWU

Walt DuBose wrote:
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> First, the FCC NEVER SAID or has gone on record saying..."that
> encryption is
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> No keys, etc. were communted on.
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> Its very clear, if you message is encoded for the purpose of obscuring
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> What so hard about that? Why does it take more explination from the FCC.
> The problem is that for years hams have been saying that encoding a

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> Walt/K5YFW
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> kc2mmi_whitelisted email wrote:
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>

[Non-text portions of this message have been removed]

1189. Re: [ntms-hsmm] Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-14 12:17:07 UTC
From: Walt DuBose
Topic: 1178 Message: 1189

Johnny,

You say..."FCC and others are very capable of reading and understanding anything that a WiFi signal is able to send as standard from factory equipment."

I don't believe that this is true.

If you are running WEP128, you create a complex key code...either one that you "think up" or developed from a "pass phrase". Even if the FCC knows the algorythem, you are the only one who knows the key code or pass phrase.

While it is true that many are capable of "breaking" a WEP128 encrypted code, the general public isn't capable of breaking it and I doubt that the FCC employees individuals to do such.

But I have only mentioned a rather simple encryption. There is nothing to prevent individuals from creating a more complicated encryption schemes that would be almost impossible to break without expending a great deal of computer time and effort.

There are commercial "codes" for non-WiFi equipment that operate under Part 15 that are near impossible to decode without great effort. ITT is one of the vendors of encryption equipment that operates under Part 15 that has an encryption code that is equal to the code that the U.S. government uses for Top Secret data encryption...and they have made this equipment for many years.

73,

Walt/K5YFW

Johnny KD5LWU wrote:
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>>>during a mass casualty/evacuation response. Or *protecting* a national
>>>security interest. Or...surely, there must be others reasons,
>>
>>because if the
>>

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>>>sole purpose of "encyrpting" was "obscuring", it would have been
>>
>>redundant
>>
>>>of the FCC to use both terms in the same sentence. And that would be
>>
>>held
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>>>against them.
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>>
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1190. RE: [ntms-hsmm] Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-14 15:22:31 UTC
From: John Champa
Topic: 1178 Message: 1190

Walt, Johnny,

My HSMM (k8ocl) node is a good example of this area...

This node has been operating on and off for about 6 years using only WEP64.
In that time dozens of individuals have approached me and said something
along these lines:

"WEP64! Well, I read in DWEEB Magazine that any idiot can break that code!"

My response: "OK, go ahead and break it. If you do I will upgrade everybody
on the network to WEP128."

No takers yet (HI).

As far as I can determine, nobody has intruded on the network to date.
But progress is getting in the way. Some newer PCs will not allow such a
low level encryption, so we may all have to move to WEP128 some day anyway....;o(

73,
John, K8OCL

To: ntms-hsmm@yahoogroups.comFrom: dubose@...: Thu, 14 Feb 2008 06:17:07 -0600Subject: Re: [ntms-hsmm] Re: Encryption

Johnny,You say..."FCC and others are very capable of reading and understanding anything that a WiFi signal is able to send as standard from factory equipment."I don't believe that this is true.If you are running WEP128, you create a complex key code...either one that you "think up" or developed from a "pass phrase". Even if the FCC knows the algorythem, you are the only one who knows the key code or pass phrase.While it is true that many are capable of "breaking" a WEP128 encrypted code, the general public isn't capable of breaking it and I doubt that the FCC employees individuals to do such.But I have only mentioned a rather simple encryption. There is nothing to prevent individuals from creating a more complicated encryption schemes that would be almost impossible to break without expending a great deal of computer time and effort.There are commercial "codes" for non-WiFi equipment that operate under Part 15 that are near impossible to decode without great effort. ITT is one of the vendors of encryption equipment that operates under Part 15 that has an encryption code that is equal to the code that the U.S. government uses for Top Secret data encryption...and they have made this equipment for many years.73,Walt/K5YFWJohnny KD5LWU wrote:> I don't have the technical jargon to state this precisely but....it > seems to me if a piece of equipment is designed to send a signal a > certain way and you don't alter that factory intended purpose then it is > not encryption in the sense of trying to alter something so that others > cannot interpret it. FCC and others are very capable of reading and > understanding anything that a WiFi signal is able to send as standard > from factory equipment. Simply if there are other machines/software out > there that are designed to read what you are transmitting then you are > not trying to hide anything. I believe there are programs that are quite > capable of reading/cracking/hacking encrypted transmissions

so just > exactly how is it that one is actually hiding anything? Keys just make > it more difficult for those who are malicious in intent but nothing is > impossible. Please forgive me if I am not on track with this message 73 > Johnny KD5LWU> > Walt DuBose wrote:> >>First, the FCC NEVER SAID or has gone on record saying..."that >>encryption is>>allowed if the keys are sent to the FCC or otherwise "published". This >>came out>>of talks with the FCC on the meaning of if the intent is to obscure >>the meaning>>of the text.>>>>The FCC only pointed to Part 97 where it says that encryption cannot >>be used to>>obscure the meaning of the text.>>>>No keys, etc. were communted on.>>>>Now the reasoning for this is quite plain if you look at the>>wording...encryption can't be used to obscure the meaning of the>>>>Actual verbage..."messages encoded for the purpose of obscuring their >>meaning,>>except as otherwise provided herein; ">>>>Its very clear, if you message is encoded for the purpose of obscuring >>their>>meaning, its illegal. If you purpose is to NOT obscure their meaning, >>its Ok.>>>>What so hard about that? Why does it take more explination from the FCC.>>The problem is that for years hams have been saying that encoding a >>message was>>illegal and it was never that way.>>>>Walt/K5YFW>>>>kc2mmi_whitelisted email wrote:>>>>>"Transmissions may be encoded to obscure the meaning of signals">>>>>>Actually, you could say that the tightwads at the FCC already are >>>>ahead of>>>>>the Ozzies on this one. IIRC a statute normally will held held by >>>>the courts>>>>>to the strict wording of the statute. And since the FCC foolishly >>>>said "to>>>>>obscure the meaning" that means we already ARE ALLOWED encryption >>>>for any>>>>>and all other purposes. Whether this was the FCC's intent or not.>>>>>>Now, it could be a bit of hassle defending that point of view <G> >>>>but the>>>>>FCC has also gone on record as saying that encryption is allowed if >>>>the keys>>>>>are sent to the FCC or otherwise "published". You could email them >>>>to the>>>>>NSA and fulfill that requirement, since the NSA already is legally >>>>required>>>>>to monitor everything in the ethereal realm.>>>>>>It sure would be nice if the FCC bothered to hire Ynglish majors and >>>>follow>>>>>the "plain english" laws, but as long as they've been so kind as to >>>>leave>>>>>the barn doors open...I wouldn't worry too much about it. Just make >>>>Real>>>>>Damn Sure that before you key down, you send the NSA a list of >>>>encryption>>>>>keys and/or you log your reason for encryption, as it is something >>>>other>>>>>than "obscuring". For instance: *securing* from criminal eavesdroppers,>>>during a mass casualty/evacuation response. Or *protecting* a national>>>security interest. Or...surely, there must be others reasons, >>>>because if the>>>>>sole purpose of "encyrpting" was "obscuring", it would have been >>>>redundant>>>>>of the FCC to use both terms in the same sentence. And that would be >>>>held>>>>>against them.>>>>>>>

[Non-text portions of this message have been removed]

1191. Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-14 15:45:51 UTC
From: rddunnin@rockwellcollins.com
Topic: 1178 Message: 1191

The direction and thrust of encryption is to be able to send sensitive data over any network, your network, the public network, and even an enemy's network. For HSMM purposes this brings up more issues than just over the air (OTA) security such as WEP and WPA. Consider what happens if you use SSH, VPN, IPsec or any other secure protocol over amateur networks where the packets are encrypted. This clearly causes the "meaning to be obscured" of the traffic carried and moves the debate from securing of the OTA (over the air) packets to securing the actual content of the communications. I've heard a lot of discussion of OTA encryption and agree that this is probably justifiable under existing Part 97 rules for securing a WiFi network operating under Part 97 rules against improper use by unlicensed individuals. None of us wants a bunch of Part 15 guys invading our fire breathing Field Day wireless network so they can use it for purposes contrary to the Part 97 regulations. The next level of discussion is how to make sure our networks stay legal in a net-enabled world full of VPN, SSH, IPsec and other Information Assurance (IA) techniques embedded in net-centric applications. I for one do not have a good feel for this under Part 97 and would tend to shy away from these things. Yet, in a disaster or EmComm setting, IA becomes essential when protecting lists of casualties and other sensitive information surrounding the incident/event.

One other thought: To make a group of responders effective using WEP or WPA you have to get the keys to those responding to what will be a high stress incident. What is the best mechanism to deliver the keys? One technique is to take a page from the Signal Corps and use something resembling the Communications-Electronics Operating Instructions (CEOI) books with a page of codes changed from time to time and selected by means of some algorithm or a pager code. Thoughts?

Final thing: I am familiar with a public service event that required all amateur operators to be trained in various emergencies that could occur in the event. One of the items was "bomb threat" and there was a procedure for imposing radio silence to prevent accidental triggering of a device by an operator's radio. The "all clear" was a series of code words handed out to every operator on a sheet along with an algorithm for determining which clear code was in force based upon an announcement by net control. Here was a case of "obscuring the meaning" of the communication. Question: Though this plan was both wise and prudent, under Part 97, was it legal?

RD - KC5QHH

[Non-text portions of this message have been removed]

1192. Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-14 17:41:03 UTC
From: kc2mmi_whitelisted email
Topic: 1178 Message: 1192

Gordon-
"To whom at the FCC or NSA would you send your keys and rationale?"
I don't know, but any responsible party should do. Mark it "Attention: Amateur Radio monitor division" or "Attention: Cryptography & Cipher Division" or...use you imagination. Once you've sent it, they're free to misfile it.<G> Proof of mailing is suggested.

Johnny-
FWIW,when you talk about how a piece of equipment was intended to be used consiider this. How many times have ytou heard two hams over the air, and one says to the other "Give me a landline, I want to talk to you about that thing we were talking about yesterday." THAT IS ENCRYPTION FOR THE PURPOSES OF OBSCURING THE MESSAGE. Yes, using analogy is quite sufficient to be encryption, in the general sense of the term. Or, the conventional marathon safety network, where "We need blue water bottles at post seven" will be sent to mean "There's a riot we need police."

Encyrption? Really, the FCC just needs to get off their petards and address the issue. They've got no budget or resources to do it, I can appreiate that. Nevertheless, they are legally obligated to do it--and to do it in plain Ynglitch--and I could give a damn if that means they'd have to furlough everyone and close on December 21st instead of the 31st one year. Or, not address the issue and leave it as it is--which probably will result in a lawsuit one of these days, costing them more than addressing the issue would have.

Walt-
"While it is true that many are capable of "breaking" a WEP128 encrypted code,
the general public isn't capable of breaking it and I doubt that the FCC employees individuals to do such."
Yeah, actually this was discussed in the trade press and the CERT web site about 3 years ago. Any script kiddie can run freeware that is openly available, to break any WEp code that is supplied with any consumer equipment, and the FBI/CERT demonstartion indicates that this only need 3-5 minutes for typical use. WEP is dead, all it does is serve to keep Aunt Rita from looking at the neighbor's computer.
it isn't the FCC's job to break it---it is the NSA's job to monitor,record, and decrypt EVERYTHING "on the air" or "one the wires". But WEP? Ask any grade school geek, he can read it for you.

Free pop3 email with a spam filter.
http://www.bluebottle.com/tag/5

1193. Re: [ntms-hsmm] Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-14 23:54:00 UTC
From: kd5lwu
Topic: 1178 Message: 1193

Thanks guy's for the responsive input. Honestly I have an open network here as there is nothing to hide though all my HDD's are secure (that can be hacked too) and have not really seen a need for much encryption. I really don't mind someone using my WiFi for an internet connection and have not had anyone try to hack me in the 4 years I have been running wireless but then I live in a small town (Cortez, CO - now that I have identified myself I guess I better look out LOL) I do acknowledge the day may come though when more stringent network control will be needed. While I agree that clearer encryption policies are needed from the FCC it might very well stagnate experimentation and of course that is what ham radio is all about.....

kc2mmi_whitelisted email wrote:
>
> Gordon-
> "To whom at the FCC or NSA would you send your keys and rationale?"
> I don't know, but any responsible party should do. Mark it "Attention:
> Amateur Radio monitor division" or "Attention: Cryptography & Cipher
> Division" or...use you imagination. Once you've sent it, they're free to
> misfile it.<G> Proof of mailing is suggested.
>
> Johnny-
> FWIW,when you talk about how a piece of equipment was intended to be used
> consiider this. How many times have ytou heard two hams over the air, and
> one says to the other "Give me a landline, I want to talk to you about
> that
> thing we were talking about yesterday." THAT IS ENCRYPTION FOR THE
> PURPOSES
> OF OBSCURING THE MESSAGE. Yes, using analogy is quite sufficient to be
> encryption, in the general sense of the term. Or, the conventional
> marathon
> safety network, where "We need blue water bottles at post seven" will be
> sent to mean "There's a riot we need police."
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> Encyrption? Really, the FCC just needs to get off their petards and
> address
> the issue. They've got no budget or resources to do it, I can appreiate
> that. Nevertheless, they are legally obligated to do it--and to do it in
> plain Ynglitch--and I could give a damn if that means they'd have to
> furlough everyone and close on December 21st instead of the 31st one
> year.
> Or, not address the issue and leave it as it is--which probably will
> result
> in a lawsuit one of these days, costing them more than addressing the
> issue

> would have.
>
> Walt-
> "While it is true that many are capable of "breaking" a WEP128 encrypted
> code,
> the general public isn't capable of breaking it and I doubt that the FCC
> employees individuals to do such."
> Yeah, actually this was discussed in the trade press and the CERT web
> site
> about 3 years ago. Any script kiddie can run freeware that is openly
> available, to break any WEp code that is supplied with any consumer
> equipment, and the FBI/CERT demonstartion indicates that this only
> need 3-5
> minutes for typical use. WEP is dead, all it does is serve to keep
> Aunt Rita
> from looking at the neighbor's computer.
> it isn't the FCC's job to break it---it is the NSA's job to
> monitor,record,
> and decrypt EVERYTHING "on the air" or "one the wires". But WEP? Ask any
> grade school geek, he can read it for you.
>
> ---
> Free pop3 email with a spam filter.
> http://www.bluebottle.com/tag/5 <http://www.bluebottle.com/tag/5>
>
>

[Non-text portions of this message have been removed]

1194. Re: [ntms-hsmm] Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-15 02:02:17 UTC
From: kevin asato
Topic: 1178 Message: 1194

--- kd5lwu <wifihamconnect@...> wrote:
> While I agree that clearer encryption policies are
> needed from the FCC
> it might very well stagnate experimentation and of
> course that is what
> ham radio is all about.....

Are we perhaps confusing encoding techniques which are used to modulate the data onto transmission media with scrambling for the purposes of hiding one's intents? Modern encoding techniques use data scrambling to maintain a particular density of bits to aid in data recovery at the far end. ISDN and xDSL come immediately to mind as I have worked with them for quite a while.
These scrambling algorithms eventually get published in order to gain a wide audience of acceptance. I don't see this being stifled.

Intentional scrambling to obscure the meaning of what is said can be done in simple plain speech based on a preset list of messages. Nothing hi-tech there. In fact it may even sound like a perfectly normal message. How about reusing 10-codes. Most interpretations are widely published. However, they differ from region to region as to what they actually are.

just my thoughts.

73,
kevin
kc6pob

Looking for last minute shopping deals?
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http://tools.search.yahoo.com/newsearch/category.php?category=shopping

1195. Re: [ntms-hsmm] Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-15 05:47:31 UTC
From: Johnny KD5LWU
Topic: 1178 Message: 1195

Interesting so one could use a normal sentence structure say "the little brown fox jumped over the moon" and the whole sentence could have a completely different meaning based upon some different formula when reading at the other end. Makes one afraid to talk on the bands - not good to get a letter from FCC for saying something I didn't mean (of course I do that fairly often LOL) Hi Hi got your point though thanks 73 Johnny

kevin asato wrote:
>
>
> --- kd5lwu <wifihamconnect@...
> <mailto:wifihamconnect%40beyondbb.com>> wrote:
> > While I agree that clearer encryption policies are
> > needed from the FCC
> > it might very well stagnate experimentation and of
> > course that is what
> > ham radio is all about.....
>
> Are we perhaps confusing encoding techniques which are
> used to modulate the data onto transmission media with
> scrambling for the purposes of hiding one's intents?
> Modern encoding techniques use data scrambling to
> maintain a particular density of bits to aid in data
> recovery at the far end. ISDN and xDSL come
> immediately to mind as I have worked with them for
> quite a while.
> These scrambling algorithms eventually get published
> in order to gain a wide audience of acceptance. I
> don't see this being stifled.
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> Intentional scrambling to obscure the meaning of what
> is said can be done in simple plain speech based on a
> preset list of messages. Nothing hi-tech there. In
> fact it may even sound like a perfectly normal
> message. How about reusing 10-codes. Most
> interpretations are widely published. However, they
> differ from region to region as to what they actually
> are.
>
> just my thoughts.
>
> 73,
> kevin
> kc6pob

>
> _____
> Looking for last minute shopping deals?
> Find them fast with Yahoo! Search.
> http://tools.search.yahoo.com/newsearch/category.php?category=shopping
> <http://tools.search.yahoo.com/newsearch/category.php?category=shopping>
>
>

[Non-text portions of this message have been removed]

1196. Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-16 05:47:23 UTC
From: Steve
Topic: 1178 Message: 1196

Well to me it's a dead issue. But I think the whole point of the "shall not intentionally obscure the message" wording is to stop illegal use of the frequencies. Else it enables business communications and drug trafficking. An obscured message isn't really a problem, what is going on behind that can be.

Anyway for me the whole 1 watt automatic power control rule has to go. Thats my deal breaker. I know the ARRL proposed in March 06 to have that eliminated. Has anyone heard of any progress?

1197. RE: [ntms-hsmm] Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-16 07:58:03 UTC
From: John Champa
Topic: 1178 Message: 1197

KB9MWR,

The FCC contacted the HSMM WG to advise us that they now consider the 1W APC rule to be unfeasible using 802.11 modulation. The original reg was written on the basis that future Radio Amateur HSMM radio would be CDMA based, not 802.11. With that development it is now considered null and void, both unworkable and unenforceable.

However, the largest constraint is $. The max SS power I have operated is 3W.

Don't worry about it.

73,
John, K8OCL

To: ntms-hsmm@yahoogroups.comFrom: kb9mwr@...: Sat, 16 Feb 2008 05:47:23 +0000

Well to me it's a dead issue. But I think the whole point of the"shall not intentionally obscure the message" wording is to stopillegal use of the frequencies. Else it enables businesscommunications and drug trafficking. An obscured message isn't reallya problem, what is going on behind that can be.Anyway for me the whole 1 watt automatic power control rule has to go.Thats my deal breaker. I know the ARRL proposed in March 06 to havethat eliminated. Has anyone heard of any progress?

[Non-text portions of this message have been removed]

1198. Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-16 18:54:17 UTC
From: Steve
Topic: 1178 Message: 1198

Well that 1 watt rule is still in Part 97 is it not? That's kind of a stickler, more so that the quote/unquote encryption confusion.

My interest is in a frequency hopping application. Yes as you point out you can walk right around that rule using 802.11g instead of 802.11b.

Steve
--- In ntms-hsmm@yahoogroups.com, John Champa <k8ocl@...> wrote:
>
>
> KB9MWR,
>
> The FCC contacted the HSMM WG to advise us that they now consider the
> 1W APC rule to be unfeasible using 802.11 modulation. The original
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> written on the basis that future Radio Amateur HSMM radio would be
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> not 802.11. With that development it is now considered null and
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> and unenforceable.
>
> However, the largest constraint is $. The max SS power I have
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>
> Don't worry about it.
>
> 73,
> John, K8OCL
>
>
> To: ntms-hsmm@...: kb9mwr@...: Sat, 16 Feb 2008 05:47:23 +0000
>
>
>
> Well to me it's a dead issue. But I think the whole point of
the"shall not intentionally obscure the message" wording is to
stopillegal use of the frequencies. Else it enables
businesscommunications and drug trafficking. An obscured message isn't
reallya problem, what is going on behind that can be.Anyway for me the
whole 1 watt automatic power control rule has to go.Thats my deal
breaker. I know the ARRL proposed in March 06 to havethat eliminated.
Has anyone heard of any progress?
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> [Non-text portions of this message have been removed]
>

1199. RE: [ntms-hsmm] Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-16 19:05:17 UTC
From: John Champa
Topic: 1178 Message: 1199

Steve,

Part 97 is packed to the gills with old, out dated stuff. If they ever get around to revising it, I sure somebody will mail a copy to your widow (HI).

73,
John, K8OCL

To: ntms-hsmm@yahoogroups.comFrom: kb9mwr@...: Sat, 16 Feb 2008 18:54:17 +0000Subject: [ntms-hsmm] Re: Encryption

Well that 1 watt rule is still in Part 97 is it not? That's kind of astickler, more so that the quote/unquote encryption confusion.My interest is in a frequency hopping application. Yes as you pointout you can walk right around that rule using 802.11g instead of 802.11b.Steve--- In ntms-hsmm@yahoogroups.com, John Champa <k8ocl@...> wrote:>> > KB9MWR,> > The FCC contacted the HSMM WG to advise us that they now consider the > 1W APC rule to be unfeasible using 802.11 modulation. The originalreg was> written on the basis that future Radio Amateur HSMM radio would beCDMA based,> not 802.11. With that development it is now considered null andvoid, both unworkable> and unenforceable.> > However, the largest constraint is $. The max SS power I haveoperated is 3W.> > Don't worry about it.> > 73,> John, K8OCL> > > To: ntms-hsmm@...: kb9mwr@...: Sat, 16 Feb 2008 05:47:23 +0000 > > > > Well to me it's a dead issue. But I think the whole point ofthe"shall not intentionally obscure the message" wording is tostopillegal use of the frequencies. Else it enablesbusinesscommunications and drug trafficking. An obscured message isn'treallya problem, what is going on behind that can be.Anyway for me thewhole 1 watt automatic power control rule has to go.Thats my dealbreaker. I know the ARRL proposed in March 06 to havethat eliminated.Has anyone heard of any progress? > > > > > > > > [Non-text portions of this message have been removed]>

[Non-text portions of this message have been removed]

1200. RE: [ntms-hsmm] Re: Encryption

Yahoo group: DAWG-HSMM
Date: 2008-02-16 19:17:30 UTC
From: John Champa
Topic: 1178 Message: 1200

Steve,

Sorry, I missed your comment in my reply about the unenforced 1W APC thing.
Yes, it is still in the regulations, but the FCC Enforcement Branch wrote the WG
to inform us that they have no intention whatsoever of enforcing it. It was
a bad regulation drafted by well intentioned early HSMM Radio Amateurs and
simply inserted by the FCC into Part 97. Later, when these same Radio Amateurs
tried to revise / eliminate it to reflect the new reality of the situation, the FCC didn't
want to do that (insert and then a year or so later withdraw) so they simply said they
won't enforce it. Hope that helps.

But...

What does 802.11b got to do with FHSS?

802.11 is FHSS.

802.11b is DCSS, while 802.11g is OFDM.

To: ntms-hsmm@yahoogroups.comFrom: kb9mwr@...: Sat, 16 Feb 2008 18:54:17 +0000Subject:
[ntms-hsmm] Re: Encryption

Well that 1 watt rule is still in Part 97 is it not? That's kind of astickler, more so that
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John, K8OCL> > > To: ntms-hsmm@...: kb9mwr@...: Sat, 16 Feb 2008 05:47:23 +0000 > > > >
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havethat eliminated.Has anyone heard of any progress? > > > > > > > > [Non-text portions of
this message have been removed]>

[Non-text portions of this message have been removed]

1201. Re: was Encryption, now APC

Yahoo group: DAWG-HSMM
Date: 2008-02-17 03:35:56 UTC
From: Steve
Topic: 1178 Message: 1201

--- In ntms-hsmm@yahoogroups.com, John Champa <k8ocl@...> wrote:
>
>
> Steve,
>
> Sorry, I missed your comment in my reply about the unenforced 1W APC thing.
> Yes, it is still in the regulations, but the FCC Enforcement Branch wrote the WG
> to inform us that they have no intention whatsoever of enforcing it. It was
> a bad regulation drafted by well intentioned early HSMM Radio Amateurs and
> simply inserted by the FCC into Part 97. Later, when these same Radio Amateurs
> tried to revise / eliminate it to reflect the new reality of the situation, the FCC didn't
> want to do that (insert and then a year or so later withdraw) so they simply said they
> won't enforce it. Hope that helps.
>
> But...
>
> What does 802.11b got to do with FHSS?
>
> 802.11 is FHSS.
>
> 802.11b is DCSS, while 802.11g is OFDM.

Nothing. I was just saying the 1w APC rule isn't an issue for most as they can use 802.11g instead of b.

I'm not most people. I like frequency hopping, and that rule bothers me. Now these Motorola DTR radios came out, and those are FHSS too.

How is a guy supposed to know when there is an open period for submitting comment on something like that? I've never done that yet, and can see the letter I wrote to the ARRL isn't enough, so I'd gladly comment to the FCC on that if I knew the procedure.

1202. 08 Ham-Com Request for Presentations

Yahoo group: DAWG-HSMM
Date: 2008-03-03 05:09:58 UTC
From: J. Beadles
Topic: 1202 Message: 1202

Ham-Com is being held this year on June 13 & 14 in Plano, TX. The theme of the event is "Not Your Daddy's Ham Radio!". We would like to see an emphasis on is new and modern in every area of the hobby. This can include new features in radios, digital technologies, updated operating practices, and so on. However, if you don't have something with such a link, we still want your presentation.

To submit a presentation for this year's Ham-Com, please visit the presenters' submission form at:

http://www.hamcom.org/cgi-bin/ccp51/cp-app.cgi?&pg=presenters

Be sure to get your presentations in early. Being able to advertise presentations well in advance helps drive attendence. Also, last year we ran out of time slots in the prime presentation hours several weeks in advance, with a total of 100 hrs of presentations!

For more information on Ham-Com, please visit the Ham-Com web site at http://www.hamcom.org/. If you have any questions or need more information, please contact me at n5oom@....

John Beadles, N5OOM
n5oom@arrl.net
972-898-0843

1203. Linux distribution specifically for HSMM and amateur TCP/IP

Yahoo group: DAWG-HSMM
Date: 2008-03-16 07:18:20 UTC
From: kf4yfd
Topic: 1203 Message: 1203

Today Outernet Server, beta 1 was released.

To begin though... what is the Outernet?
The outernet is like the internet, just without the wires.
In short TCP/IP over radio, but easy to use and easy to learn.
At least that is the goal of the project...

It is a custom linux distribution that installs preconfigured and
offers many useful features to an amateur TCP/IP network.

One of its most noteworthy features is automatic FCC identification of
the HAM's that are connected.
See here for a configuration howto on Windows based machines:
http://outernet.wikidot.com/windows-dyndns

The server also acts as an FTP file server, HTTP web server with
bulletin boards, Jabber Instant messaging server, and eventually will
support many more features.

If anyone is interested please check it out and give me some feedback.
This is a "stable" beta. In other words, all features are not finished
but the ones that are should be bug free. Please report any bugs to
the outernet forums.

73's
KL4YFD
John

1204. ARRL's New VHF Digital Handbook Available

Yahoo group: DAWG-HSMM
Date: 2008-03-22 21:29:25 UTC
From: John Champa
Topic: 1204 Message: 1204

Chapter 7 covers HSMM Radio....

Introducing NEW ARRL Books -- Just for YOU!

ARRL PUBLICATIONS BULLETIN - March 20, 2008
www.arrl.org/new

NEW and Now Shipping!
ARRL?s VHF Digital Handbook -- 1st Edition
by Steve Ford, WB8IMY

Dive into the Digital Radio Universe with ARRL's VHF Digital Handbook. You?ll understand how to setup and operate your equipment and software, and make the best use of your VHF digital station.

Includes:

Packet Radio

APRS

D-STAR

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[Non-text portions of this message have been removed]

1205. Microwave Update, Bloomington, MN, October 17 - 18

Yahoo group: DAWG-HSMM
Date: 2008-04-10 21:23:56 UTC
From: Mark Thompson
Topic: 1205 Message: 1205

Microwave Update, Bloomington, MN, October 17 - 18

http://www.microwaveupdate.org/

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

1206. Link: Wifi enabled cameras

Yahoo group: DAWG-HSMM
Date: 2008-04-12 19:46:25 UTC
From: J. Beadles
Topic: 1206 Message: 1206

Interesting article on wifi enabled cameras at:

http://www.pcworld.com/article/id,144462/article.html

Discussion of the Eye-fi SD card, an SD card that contains 2Gb of memory and a wifi radio, so that when you take a pic, it transmits the pic to a predefined Wifi network. It doesn't seem to use FTP or email, though. You can transmit pics directly to your computer if the Eye-fi software is running, leading me to believe that they use a proxy service. Looks interesting. Costs around $100.

http://www.eye.fi/

1207. Dayton Hamvention Technical Achievement Award: Tom McDermott, N5EG

Yahoo group: DAWG-HSMM
Date: 2008-04-13 17:34:30 UTC
From: Mark Thompson
Topic: 1207 Message: 1207

Thomas C. McDermott, N5EG

Dayton Hamvenion Technical Achievement Award: Tom McDermott, N5EG
The Hamvention Technical Achievement Award goes to Thomas C. McDermott, N5EG, for his "more than 20 years of involvement in projects which further the development of Amateur Radio." According to Hamvention, McDemott co-developed the TexNet packet switching network in 1986; based on datagram routing, it covered much of the South Central United States in the 1990s.

McDermott, an ARRL Life Member, received the Doug DeMaw, W1FB, Technical Excellence Award in 2004. Licensed for almost 40 years, he is a member of the IEEE and holds a bachelor's in electrical engineering. His Amateur Radio interests lie in HF digital communications, hardware and software design, and an occasional HF contest.

McDermott was the founder of the Texas Packet Radio Society. As part of that group, he designed the hardware and some of the protocols for the TexNet packet switching network; he has been involved in numerous TAPR http://www.tapr.org/ projects and has written a textbook on wireless communications. McDermott holds eight patents.

http://www.tapr.org/~n5eg/

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

[Non-text portions of this message have been removed]

1208. Re: 08 Ham-Com Request for Presentations

Yahoo group: DAWG-HSMM
Date: 2008-04-15 19:04:22 UTC
From: J. Beadles
Topic: 1202 Message: 1208

2nd request. As yet, there are very few HSMM presentations on the schedule. The current list of presentations is on the Ham-Com web site at:

http://www.hamcom.org/cgi-bin/ccp51/cp-app.cgi?usr=&pg=programs

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <n5oom@...> wrote:
>
> Ham-Com is being held this year on June 13 & 14 in Plano, TX. The
> theme of the event is "Not Your Daddy's Ham Radio!". We would like
> to see an emphasis on is new and modern in every area of the
hobby.
> This can include new features in radios, digital technologies,
> updated operating practices, and so on. However, if you don't have
> something with such a link, we still want your presentation.
>
> To submit a presentation for this year's Ham-Com, please visit the
> presenters' submission form at:
>
> http://www.hamcom.org/cgi-bin/ccp51/cp-app.cgi?&pg=presenters
>
> Be sure to get your presentations in early. Being able to advertise
> presentations well in advance helps drive attendence. Also, last
> year we ran out of time slots in the prime presentation hours
> several weeks in advance, with a total of 100 hrs of presentations!
>
> For more information on Ham-Com, please visit the Ham-Com web site
at
> http://www.hamcom.org/. If you have any questions or need more
> information, please contact me at n5oom@...
>
> John Beadles, N5OOM
> n5oom@...
> 972-898-0843
>

1209. Fw: 08 Ham-Com Request for Presentations

Yahoo group: DAWG-HSMM
Date: 2008-04-15 19:45:31 UTC
From: Mark Thompson
Topic: 1209 Message: 1209

----- Forwarded Message ----
From: J. Beadles <n5oom@...>
To: illinoisdigitalham@yahoogroups.com
Sent: Tuesday, April 15, 2008 2:10:22 PM
Subject: [illinoisdigitalham] 08 Ham-Com Request for Presentations

Ham-Com is being held this year on June 13 & 14 in Plano, TX. The theme of the event is "Not Your Daddy's Ham Radio!". We would like to see an emphasis on is new and modern in every area of the hobby. This can include new features in radios, digital technologies, updated operating practices, and so on. In years past I've had several HSMM presentations, however; this year I only have one. I'd sure like to have a few more.

To submit a presentation for this year's Ham-Com, please visit the presenters' submission form at:

http://www.hamcom.org/cgi-bin/ccp51/cp-app.cgi?&pg=presenters

Be sure to get your presentations in early. Being able to advertise presentations well in advance helps drive attendence. Also, last year we ran out of time slots in the prime presentation hours several weeks in advance, with a total of 100 hrs of presentations!

For more information on Ham-Com, please visit the Ham-Com web site at http://www.hamcom.org/. If you have any questions or need more information, please contact me at n5oom@....

John Beadles, N5OOM
n5oom@...
972-898-0843

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http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

[Non-text portions of this message have been removed]

1210. Re: 08 Ham-Com Request for Presentations

Yahoo group: DAWG-HSMM
Date: 2008-04-15 22:28:06 UTC
From: rddunnin@rockwellcollins.com
Topic: 1202 Message: 1210

We have been using HSMM to network our FD logging operation at GARC. This is not enough for a full presentation but I would be happy to be part of an "HSMM War Stories" discussion where I can gin up a 10 min presentation on our use of HSMM and bring in the gear I use to make it happen. Between Wild Ride and other PSEs there should be enough fodder for a War Stories forum.

[Non-text portions of this message have been removed]

1211. RE: [ntms-hsmm] Re: 08 Ham-Com Request for Presentations

Yahoo group: DAWG-HSMM
Date: 2008-04-16 16:10:29 UTC
From: John Champa
Topic: 1202 Message: 1211

I would join such a forum too. Got lots of war stories about HSMM.
Putting together a few slides and photos would not take long.

John, K8OCL

To: ntms-hsmm@yahoogroups.comFrom: rddunnin@...: Tue, 15 Apr 2008 17:28:06 -0500Subject: [ntms-hsmm] Re: 08 Ham-Com Request for Presentations

We have been using HSMM to network our FD logging operation at GARC. This is not enough for a full presentation but I would be happy to be part of an "HSMM War Stories" discussion where I can gin up a 10 min presentation on our use of HSMM and bring in the gear I use to make it happen. Between Wild Ride and other PSEs there should be enough fodder for a War Stories forum.[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1212. RE: [ntms-hsmm] Re: 08 Ham-Com Request for Presentations

Yahoo group: DAWG-HSMM
Date: 2008-04-16 16:48:11 UTC
From: Kipton Moravec
Topic: 1202 Message: 1212

I could probably put something together about Plano Balloon Festival. We tied 4 wireless routers together to cover that event. Maximum range was only 2500 feet. But we had some challenging configurations.

We are getting ready to try a 4 mile hop for the 2008 Wild Ride.

Kip

On Wed, 2008-04-16 at 11:10 -0500, John Champa wrote:
> I would join such a forum too. Got lots of war stories about HSMM.
> Putting together a few slides and photos would not take long.
>
> John, K8OCL
>
>
> To: ntms-hsmm@yahoogroups.comFrom: rddunnin@...: Tue, 15 Apr 2008 17:28:06 -0500Subject: [ntms-hsmm] Re: 08 Ham-Com Request for Presentations
>
>
>
>
> We have been using HSMM to network our FD logging operation at GARC. This is not enough for a full presentation but I would be happy to be part of an "HSMM War Stories" discussion where I can gin up a 10 min presentation on our use of HSMM and bring in the gear I use to make it happen. Between Wild Ride and other PSEs there should be enough fodder for a War Stories forum.[Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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>
>
>
--
Kipton Moravec KE5NGX
"Always do right; this will gratify some people and astonish the rest."

--Mark Twain

1213. RE: [ntms-hsmm] Re: 08 Ham-Com Request for Presentations

Yahoo group: DAWG-HSMM
Date: 2008-04-16 18:48:30 UTC
From: John Champa
Topic: 1202 Message: 1213

Kip,

That is a Classic RAN (Radio Area Network)! Bigger than a WLAN but smaller than a RMAN (Radio Metro Area Network). Go for it. I'll be there taking notes (HI).

Thanks,
John, K8OCL

To: ntms-hsmm@yahoogroups.comFrom: kip@...: Wed, 16 Apr 2008 11:48:11 -0500Subject: RE: [ntms-hsmm] Re: 08 Ham-Com Request for Presentations

I could probably put something together about Plano Balloon Festival. Wetied 4 wireless routers together to cover that event. Maximum range wasonly 2500 feet. But we had some challenging configurations.We are getting ready to try a 4 mile hop for the 2008 Wild Ride.KipOn Wed, 2008-04-16 at 11:10 -0500, John Champa wrote:> I would join such a forum too. Got lots of war stories about HSMM.> Putting together a few slides and photos would not take long.> > John, K8OCL > > > To: ntms-hsmm@yahoogroups.comFrom: rddunnin@...: Tue, 15 Apr 2008 17:28:06 -0500Subject: [ntms-hsmm] Re: 08 Ham-Com Request for Presentations> > > > > We have been using HSMM to network our FD logging operation at GARC. This is not enough for a full presentation but I would be happy to be part of an "HSMM War Stories" discussion where I can gin up a 10 min presentation on our use of HSMM and bring in the gear I use to make it happen. Between Wild Ride and other PSEs there should be enough fodder for a War Stories forum.[Non-text portions of this message have been removed] > > > > > > > > [Non-text portions of this message have been removed]> > > ----------> > Yahoo! Groups Links> > > > -- Kipton Moravec KE5NGX"Always do right; this will gratify some people and astonish the rest."--Mark Twain

[Non-text portions of this message have been removed]

1214. Re: [ntms-hsmm] Re: 08 Ham-Com Request for Presentations

Yahoo group: DAWG-HSMM
Date: 2008-04-16 21:31:48 UTC
From: Bill Vodall WA7NWP
Topic: 1202 Message: 1214

> I could probably put something together about Plano Balloon Festival. We
> tied 4 wireless routers together to cover that event.

You tied the 4 routers "wlan" port together by wireless? Used a different channel for a backbone compared to user access? That sounds like an interesting project -- more details please.

73
Bill - WA7NWP

1215. Re: [ntms-hsmm] Re: 08 Ham-Com Request for Presentations

Yahoo group: DAWG-HSMM
Date: 2008-04-16 22:34:21 UTC
From: Kipton Moravec
Topic: 1202 Message: 1215

Yes. But we used the same channel for the backbone as for the user access. The off-the-shelf routers do not have the capability of two channels at the same time.

On the otherhand, we could use two routers at each point and have the backbone on one channel, and the users on another channel. We have not tried that, as it is too expensive.

The bandwidth is reduced the way we are doing it, but with 54 Mbps links, most Internet connections are no where near that fast. My FiOS is 5 Mbps Down and 2 Mbps up, and a T1 is 1.4 Mbps. So running at 2% we are still faster than a T1.

Details...
The Plano First United United Methodist church let us use their Internet connection, but their WiFi was on the wrong side of the building, on the first floor. The stone walls and flat roof (with metal underlay) would not let the signal get to us on the roof. We found a place over the wall on the roof where we could pick up their signal as it went through a closet door and an outside glass door. We set up one of the routers as an access point and ran a wire to the side of the roof with one of John's (N5OOM) routers with the 15 db Gain antennas. The 30 degree beamwidth of the antenna was enough to cover all 3 antennas on the field.

The first antenna was at the communications trailer 2500 feet from the church. Since the Communications trailer was metal skinned we ran a CAT5 cable in through a window to a switch for the two computers in there operated by PARK members. The Field Operations tent was about 100 feet off the side, and they were able to connect to the router off a back lobe.

The Second antenna and router was at the scissor lift for the Balloon Flight Director also a PARK member, to get realtime weather reports for flight safety. There was LOS to the Church at about 1850 feet, but there were too many trees to see the communications trailer. I do not remember if the flight director used a wire or his WiFi to attach to that router. Both options were available to him.

The third antenna and router on the field was at the drive way to the field. It was about 1000 feet from the church. The plan there was to have a camera so the field ops could see cars entering and leaving the field. At the last minute we could not get the camera to work, but the link was working.

The network was working from Friday Morning 8:00 to Sunday night about 6:00 p.m.

Our goal next year is to see if we can do the same thing without the directional antenna modified routers. Since the routers were modified they were ham equipment, so only hams could use the network. The Plano Balloon Festival officials wanted to use it also, but could not. If we do it with non modified HW then we could let them hook in also.

Kip

On Wed, 2008-04-16 at 21:31 +0000, Bill Vodall WA7NWP wrote:
> > I could probably put something together about Plano Balloon Festival. We
> > tied 4 wireless routers together to cover that event.
>
> You tied the 4 routers "wlan" port together by wireless? Used a
> different channel for a backbone compared to user access? That
> sounds like an interesting project -- more details please.
>
> 73
> Bill - WA7NWP
>
> ----------
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> Yahoo! Groups Links
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--
Kipton Moravec KE5NGX
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1216. Re: 08 Ham-Com Request for Presentations

Yahoo group: DAWG-HSMM
Date: 2008-04-17 15:19:57 UTC
From: J. Beadles
Topic: 1202 Message: 1216

This sounds like a really good idea. Tell you what, if somebody can organize the forum so I don't have to do it, I'll put together some "History of Wild Ride" slides together, and talk about the evolution of WAP11s to WRTs and DSTAR.

That is, somebody else can host and enter the program description.

--- In ntms-hsmm@yahoogroups.com, John Champa <k8ocl@...> wrote:
>
>
> I would join such a forum too. Got lots of war stories about HSMM.
> Putting together a few slides and photos would not take long.
>
> John, K8OCL
>
>
> To: ntms-hsmm@...: rddunnin@...: Tue, 15 Apr 2008 17:28:06 -
0500Subject: [ntms-hsmm] Re: 08 Ham-Com Request for Presentations
>
>
>
>
> We have been using HSMM to network our FD logging operation at
GARC. This is not enough for a full presentation but I would be happy
to be part of an "HSMM War Stories" discussion where I can gin up a
10 min presentation on our use of HSMM and bring in the gear I use to
make it happen. Between Wild Ride and other PSEs there should be
enough fodder for a War Stories forum.[Non-text portions of this
message have been removed]
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> [Non-text portions of this message have been removed]
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1217. RE: [ntms-hsmm] Re: 08 Ham-Com Request for Presentations

Yahoo group: DAWG-HSMM
Date: 2008-04-17 15:23:16 UTC
From: John Champa
Topic: 1202 Message: 1217

John,

I plan to work the CQ Magazine booth. Maybe Randy can pull it together.

John, K8OCL "The doctrines of democracy deal with the aspirations of men's souls, butthe application deals with things. One hand in somebody else's pocket andone on your gun, and you are highly civilized...Desire enough for your ownuse only, and you are a heathen. Civilized people have things to show totheir neighbors." Autobiography of Zora Neale Hurston.

To: ntms-hsmm@yahoogroups.comFrom: n5oom@...: Thu, 17 Apr 2008 15:19:57 +0000Subject: [ntms-hsmm] Re: 08 Ham-Com Request for Presentations

This sounds like a really good idea. Tell you what, if somebody can organize the forum so I don't have to do it, I'll put together some "History of Wild Ride" slides together, and talk about the evolution of WAP11s to WRTs and DSTAR.That is, somebody else can host and enter the program description. --- In ntms-hsmm@yahoogroups.com, John Champa <k8ocl@...> wrote:>> > I would join such a forum too. Got lots of war stories about HSMM.> Putting together a few slides and photos would not take long.> > John, K8OCL > > > To: ntms-hsmm@...: rddunnin@...: Tue, 15 Apr 2008 17:28:06 -0500Subject: [ntms-hsmm] Re: 08 Ham-Com Request for Presentations> > > > > We have been using HSMM to network our FD logging operation at GARC. This is not enough for a full presentation but I would be happy to be part of an "HSMM War Stories" discussion where I can gin up a 10 min presentation on our use of HSMM and bring in the gear I use to make it happen. Between Wild Ride and other PSEs there should be enough fodder for a War Stories forum.[Non-text portions of this message have been removed] > > > > > > > > [Non-text portions of this message have been removed]>

[Non-text portions of this message have been removed]

1218. 70 and 33 cm WiMAX platform

Yahoo group: DAWG-HSMM
Date: 2008-04-17 21:00:34 UTC
From: danielluechtefeld
Topic: 1218 Message: 1218

FYI.

Telsima has certified a WiMAX platform for operation at 70 and 33 cm (specifically, 400-1000 MHz), with selectable channel widths from 1.5 MHZ to 7 MHz: http://www.telsima.com/index.php?i=84 .

If issues of platform cost and amateur band encryption use can be overcome, this could be a viable platform for some HSMM applications.

Daniel
KE7PWF

1219. Re: [ntms-hsmm] 70 and 33 cm WiMAX platform

Yahoo group: DAWG-HSMM
Date: 2008-04-17 22:35:21 UTC
From: kevin asato
Topic: 1218 Message: 1219

--- danielluechtefeld <d.g.luechtefeld@...> wrote:
>
> If issues of platform cost and amateur band
> encryption use can be

Is encryption the same as channel encoding or modulation on the rf side of the box? I hardly regard that as encryption. From a law enforcement perspective (FCC included), there are other ways of gaining intelligence of what is being sent through the unit such as port mirroring to a sniffer device. Port Mirroring (and a court order) is how xDSL is monitored as one cannot tap directly upon the transmission pair(s). Similar things can be done with WiMAX and other modern voice and data transmission systems, if need be.

WiMAX is also an international standard (IEEE802.16/ETSI HyperMAN) with a goal of developing interoperable devices for both providers and consumers. As such, the standard to the channel encoding is published and available through the standards making bodies and trade consortia. Nothing proprietary here except what the chipset vendors (Intel, Motorola, and others) add in to their product to make them standout in their marketspace.

Just my opinion.
73,
kevin
kc6pob

Be a better friend, newshound, and
know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

1220. Re: 70 and 33 cm WiMAX platform

Yahoo group: DAWG-HSMM
Date: 2008-04-17 23:26:31 UTC
From: danielluechtefeld
Topic: 1218 Message: 1220

--- In ntms-hsmm@yahoogroups.com, kevin asato <kc6pob@...> wrote:
>
>
> --- danielluechtefeld <d.g.luechtefeld@...> wrote:
> >
> > If issues of platform cost and amateur band
> > encryption use can be
>
> Is encryption the same as channel encoding or
> modulation on the rf side of the box? I hardly regard
> that as encryption.

http://www.wimax.com/education/faq/faq29

Traffic is encrypted using CCMP, which is implemented using either 3DES or AES.

When implemented using AES, it is very similar to WPA2 employed on WiFi networks.

Therefore, by extension any FCC ruling regarding the use of encryption-enabled WiFi systems would presumably apply to this box as well.

1221. Digital Forums at Dayton Hamvention

Yahoo group: DAWG-HSMM
Date: 2008-04-18 21:17:27 UTC
From: Mark Thompson
Topic: 1221 Message: 1221

2008 Dayton Hamvention Digital Forums

AMSAT
Saturday, May 17, 2008 0900 - 1130 - Forum Room 5
Moderator
Barry A. Baines, WD4ASW
AMSAT Corporate Secretary & VP-Special Projects
Speaker
Rick Hambly, W2GPS
AMSAT President
"Status report on the Intelsat Negotiations, a brief update on Eagle, and AMSAT-DL's Phase 3-E Project."
Speaker
Robert Davis, KF4KSS
AMSAT Director-Spacecraft Integration and Lab Manager
"An overview of AMSAT's new Integration Lab in Pocomoke, MD as well as discuss the HASP (High Altitude Student Payload) and Cubesat Projects that are under development at the Lab."
Speakers
Gould Smith, WA4SXM
AMSAT VP-Member & User Services
Andrew Glasbrenner, KO4MA
MSAT VP-Operations
Mark Hammond, N8MH
AMSAT Command Station
"An overview of AO-51 as well as highlight how AO-16 has been reconfigured as a voice repeater satellite."
Speakers
Matt Ettus, N2MJI
ACP System Engineer
Michelle Thompson, W5NYV
ACP Ground Station Development Engineer
"AMSAT's Advanced Communications Package (ACP)."
Digital is becoming the future of communications. This forum will review Digital Smart Technology for Amateur Radio,
Digitized Voice and Digital Data technologies. Learn about new technology and innovations of Digital D-STAR. We will review D-STAR concepts, ideas, activity, networks and repeater growth around the nation. Learn how your call sign will find an amateur operator on the D-STAR network just by entering the call sign and how to use the internet on the Digital Data port.
This forum will provide an overview of the new communications system currently under development for Eagle and a potential payload package to be placed on a commercial geostationary satellite. ACP is designed to provide emergency communications using portable ground stations as well as make it possible for amateurs living in areas with CC&R restrictions to be able to communicate via our next generation satellite. They will explain

why ACP is
being developed and discuss both the work being done on the payload as well as the ground station component that is being developed concurrently.
Speaker
Frank Bauer, KA3HDO
AMSAT Director-Manned Space Programs
"A Ham Radio Operator's View of ARISS."
Digital is becoming the future of communications. This forum will review Digital Smart Technology for Amateur Radio, Digitized Voice and Digital Data technologies. Learn about new technology and innovations of Digital D-STAR. We will review D-STAR concepts, ideas, activity, networks and repeater growth around the nation. Learn how your call sign will find an amateur operator on the D-STAR network just by entering the call sign and how to use the internet on the Digital Data port.
This forum will outline several new initiatives under development for Amateur Radio on the International Space Station (ARISS) that will interest amateur radio operators as well as provide an overview of SuitSat-2 currently under development.

APRS
(Automatic Position Reporting System)
Friday, May 16, 2008 1315 - 1415 - Forum Room 2
Moderator
Stan Horzepa , WA1LOU
Speaker
Bob Bruninga, WB4APR
"The New APRS Direction"
Speaker
Jason Rausch, KE4NVY
"RTrak: The All-In-One APRS Tracker"

ARRL HF DIGITAL
Welcome to the World of HF Digital
Sunday, May 18, 2008 1030 - 1130 - Forum Room 1
Speaker
Steve Ford, WB8IMY
ARRL QST Editor
Author of many titles, including "HF Digital Handbook"

Where hams once chose between voice and CW, a broad range of communication choices now exist. Since the end of WWII, the evolution of amateur HF digital communications has been nothing short of phenomenal. With rapid advances in information technology, new techniques are being developed on a regular basis and more powerful computers find their way into ham stations. Whether you are new to amateur radio or more experienced, you?ll gain an increased understanding of digital communication techniques that will provide you additional
ways to enhance your Amateur Radio experience.

DSTAR
Friday, May 16, 2008 1100 - 1300 - Forum Room 1
Moderator
Greg Sarratt, W4OZK
Speaker
Greg Sarratt, W4OZK

Alabama D-STAR Group
"Update on the largest state build out of D-STAR repeaters and their EMCOMM applications"
Speaker
Jim McClellan, N5MIJ
Texas Interconnect Team
"Update on the latest D-STAR gateway control software, and the growth trends."
Speaker
Ron Shaffer, W4VM
Alabama D-STAR Group
"Technical aspects of D-STAR."
Speaker
Robin Cutshaw, AA4RC
Alabama D-STAR Group
"New hardware, software and advanced opportunities available to enhance the D-STAR network."
Digital is becoming the future of communications. This forum will review Digital Smart Technology for Amateur Radio, Digitized Voice and Digital Data technologies. Learn about new technology and innovations of Digital D-STAR. We will review D-STAR concepts, ideas, activity, networks and repeater growth around the nation. Learn how your call sign will find an amateur operator on the D-STAR network just by entering the call sign and how to use the internet on the Digital Data port.

RTTY
Saturday, May 17, 2008 1230 - 1330 - Forum Room 2
Moderator
Shelby Summerville, K4WW
Speaker
Fred Dennin, WW4LL
"Constructing and operating an MM station"
Speaker
Ed Muns, W0YK
"Operating techniques and log checking, for NAQP RTTY sprint."

SOFTWARE DEFINED RADIO
Saturday, May 17, 2008 0900 - 1130 - Forum Room 1
Moderator and Speaker
Eric Ellison, AA4SW
Speaker
Scotty Cowling, WA2DFI
"Hands-on SDR Projects"
The phenomenal Software Defined Radio paradigm shift continues with a significant number of ?off the shelf? as well as amateur hardware offerings. Many programmers are fueling the fire! Come hear the leaders in this movement describe the vast potential of this rapidly advancing technology.
This forum will give an overview of some SDR projects and show you how to get started. Are you are an experimenter or a designer, how can you contribute? Even if you only want to find out what SDR is all about, this forum is for you. Topics will include: Basic SDR architecture, HPSDR project status, useful test equipment, SDR computer hardware requirements, and SDR software.
Speaker
Phil Harman, G3WXO, VK6APH

"Fully Digital HF Radios"
This forum will explain the techniques that are used in a new generation of fully digital HF radios and discuss their advantages, disadvantages and performance in comparison to conventional analogue radios. These new radios digitize the received signal directly at the antenna socket and generate the transmit signal directly in the Power Amplifier.
Speaker
Frank Brickle, AB2KT
"SDR in the Clouds"
This forum will discuss the art and science of designing and implementing a remotable station in the new world of Software Designed Radio.
For a variety of reasons, hams are becoming very interested in using their radios remotely. Typically this means locating the control devices in one place, the radios somewhere else, and possibly the antenna system at some distance from the RF hardware as well. And what a given piece of the system does, corresponds pretty much
exactly to where it's located physically.
With Software Defined Radio, the physical locations are suddenly a lot less important. The functional distribution of system components can be much more flexible. Some of the ?radio? parts can be on one place, other parts elsewhere, or some functions can be completely transposed to a different chunk of the system.
We will cover both theoretical and practical issues involved in building a system that's tailored to different kinds of high-performance requirements, such as multi-multi contesting or weak-signal VHF.
An Atlas Motherboard, and Ozymandias USB computer interface, the basic building blocks of a High Performance Software Defined Radio will be given away as a door prize, at the end of the session. You must be present to win.

SSTV
Saturday, May 17, 2008 1530 - 1700 - Forum Room 3
Moderator
Don C. Miller, PhD, W9NTP
Speaker
Dave Jones, KB4YZ
"New Developments in Digital SSTV"
Speaker
Ralph Taggart, WB8DQT
"Fifty Years of SSTV Development"
Speaker
Mel Whitten, K0PFX
"Digital Voice for the Ham Bands"

TAPR DIGITAL
Friday, May 17, 2008 0915 - 1045 - Forum Room 1
Moderator
David Toth, VE3GYQ
President of TAPR
Introduction
John Ackermann, N8UR
"Update on Time Projects and update on OHL"
Speaker
John Ackermann, N8UR and Phil Harman, VK6APH
"Design Considerations for an HPSDR Time Reference"

Speaker
Steve Bible, N7HPR
"How to Submit a Project for Consideration by TAPR"
Speaker
Steve Bible, N7HPR and Scott Cowling, WA2DFI
"Manufacturing for the HPSDR Community: An Update on Penelope and Mercury"
Speaker
Mel Whitten, K0PFX
"Update on Digital Voice"
Speaker
Matt Ettus, N2MJI
"USRP 2008"
Open Discussion
The TAPR BoD Take the "Hot-Seat"

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[Non-text portions of this message have been removed]

1222. AMSAT / TAPR Banquet at Dayton Hamvention

Yahoo group: DAWG-HSMM
Date: 2008-04-18 21:18:38 UTC
From: Mark Thompson
Topic: 1222 Message: 1222

2008 AMSAT / TAPR Banquet at Dayton Hamvention

The second annual joint AMSAT/TAPR Banquet will be held Friday evening, May 16, 2008. The Banquet will be at the Kohler Presidental Banquet Center, Kettering, OH.

Reservations are required and must be made by Monday, 12 May 2008. The price for the Banquet is $25 per person. Tickets can be picked up at the AMSAT booth at Hamvention on Friday, or at the door.

Please contact Martha (martha@...) at the AMSAT office for information or call the office to make reservations. You can reach Martha from 10:00 AM to 6:00 PM EDT at (301) 589-6062 , or in the US toll free at (888) 322-6728 . Presidents Club Gold members should let Martha know if they are attending the banquet.

6:30 PM Doors open and Cash bar is available with Beer, Wine, Liquor and soft drinks.

7:15 PM Buffet Dinner service begins. The Center has a reputation for good food and service. The Banquet will be in the Lincoln or Kennedy room.

MENU
Fresh mixed green salad with assorted dressings
Roast Prime Rib of Beef au jus - carved on site
Marinated Roasted Garlic Rosemary Chicken Breast in lemon butter sauce
Salmon with Newburg sauce
Whipped potatoes
Normandy blended green beans
Fresh fruit bowl
Roll and butter
Coffee/ iced tea/ water
Assorted pies

AMSAT - Dayton 2008
The 2008 Dayton Hamvention will be held this year on 16 - 18 May 2008. This is the 57th year of the Dayton Hamvention, sponsored by DARA (Dayton Amateur Radio Association). AMSAT will again occupy the same booths 444-448 plus a new booth 449, across from the ARRL area. It is anticipated that the attendance for Hamvention will be larger in 2008 than in previous years. Make your reservations early for all AMSAT activities!

As has been the case for the many years Hamvention will be at the Hara Arena Complex on the north side of Dayton. Further information on Hamvention 2008, including advance ticket sales and motel accommodations, can be found at www.hamvention.org.

AMSAT has a limited block of rooms reserved at the Hampton Inn in Fairborn, OH. Please contact Martha at the AMSAT office for room price and availability during Hamvention. Priority for rooms will be given to those volunteering to work in the AMSAT booth for multiple 2 hour shifts during Hamvention. The phone number for the AMSAT office is 301-589-6062 . Other hotels in the immediate area of the Hampton Inn include the Fairfield

Inn, Ramada Inn, Fairborn Holiday Inn, Red Roof Inn and the Homewood Suites if additional accommodations are needed.

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[Non-text portions of this message have been removed]

1223. 2008 ARRL/TAPR Digital Communications Conference Issues Call for Papers

Yahoo group: DAWG-HSMM
Date: 2008-04-18 21:19:35 UTC
From: Mark Thompson
Topic: 1223 Message: 1223

2008 ARRL/TAPR Digital Communications Conference Issues Call for Papers (Apr 8, 2008) -- Technical papers are solicited for presentation at the 27th annual ARRL/TAPR Digital Communications Conference (DCC, http://www.tapr.org/dcc.html), Friday-Sunday, September 26-28, in Chicago, Illinois. Papers will also be published in the Conference Proceedings. Authors do not need to attend the conference to have their papers included in the Proceedings. The submission deadline is July 31. The ARRL/TAPR Digital Communications Conference is an international forum for technically minded radio amateurs to meet and present new ideas and techniques. Paper/presentation topic areas include -- but are not limited to -- software defined radio (SDR), digital voice, digital satellite communication, digital signal processing (DSP), HF digital modes, adapting IEEE 802.11 systems for Amateur Radio, Global Positioning System (GPS), Automatic Position Reporting System (APRS),
Linux in Amateur Radio, AX.25 updates and Internet operability with Amateur Radio networks. Submit papers to Maty Weinberg, KB1EIB, ARRL, 225 Main St, Newington, CT 06111 or via e-mail, maty@.... Papers will be published exactly as submitted, and authors will retain all rights. ARRL will provide additional information on the 2008 DCC as it becomes available.

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[Non-text portions of this message have been removed]

1224. 08 Wild Ride Test

Yahoo group: DAWG-HSMM
Date: 2008-04-25 15:19:00 UTC
From: J. Beadles
Topic: 1224 Message: 1224

For the Richardson WildRide! Bike Rally this year, we're going to attempt to provide internet access to rest stops 2 & 3 using Wifi bridges from W5LT who lives on the west side of Lake Lavon. We'll be out starting to work it at about 9am tomorrow morning. The goal is to install the head end on the W5LT's 70 ft tower and then go to RS2 and RS3 to test.

Hams interested in participating should be in the Lake Lavon area somewhere in that time frame. We'll coordinate on the PARK 440 repeater, 444.25+ pl 79.7.

1225. Re: 08 Wild Ride Test

Yahoo group: DAWG-HSMM
Date: 2008-04-26 04:26:14 UTC
From: J. Beadles
Topic: 1224 Message: 1225

Due to a miscommunication, we won't be getting out in the morning as originally planned. Instead, we'll be heading out around 4pm.

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <n5oom@...> wrote:
>
> For the Richardson WildRide! Bike Rally this year, we're going to
> attempt to provide internet access to rest stops 2 & 3 using Wifi
> bridges from W5LT who lives on the west side of Lake Lavon. We'll
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> RS3 to test.
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> Hams interested in participating should be in the Lake Lavon area
> somewhere in that time frame. We'll coordinate on the PARK 440
> repeater, 444.25+ pl 79.7.
>

1226. WRT54GL router rebate.

Yahoo group: DAWG-HSMM
Date: 2008-04-28 15:52:16 UTC
From: Kipton Moravec
Topic: 1226 Message: 1226

I just found out that Linksys has a rebate going on for the WRT54GL router which the best one to put DD-WRT on for HSMM connections. The Rebate expires April 30, and is valid for 2 units.

NewEgg.com has the best price I could find.
http://www.newegg.com/Product/Product.aspx?Item=N82E16833124190

$58.99 - $10.00 rebate = $48.99

Kip
--
Kipton Moravec KE5NGX
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1227. [Fwd: HSMM in the Austin TX area]

Yahoo group: DAWG-HSMM
Date: 2008-05-02 03:26:34 UTC
From: Kilgore
Topic: 1227 Message: 1227

Glenn -

I'm posting this message to the Yahoo group. What you are doing is very interesting.

Doug Kilgore KD5OUG

-------- Original Message --------
Subject: HSMM in the Austin TX area
Date: Thu, 1 May 2008 17:53:36 -0700 (PDT)
From: Glenn Currie <kd5mfw_7@...>
To: Kilgore <kilgore1317@...>, kd5mfw_7@...

Doug,

Glad to be on your list. I briefly talked to N5OOM after a presentation he gave here at Summerfest a couple of years ago.

We have a system of 2m / 440 voice and packet radio systems set up in the hospitals in Austin, and the system is now being expanded to other central Texas towns.

Our HSMM group has done some testing to augmenting some of the sites here in Austin, with HSMM links. The test results have been quite good. We building up a microwave mesh in our area.

Several of us work with the Texas Star Party each year. TSP is a gathering of ~800 astronomers from around the world that set up their gear and do observing from the Prude Ranch, near the McDonald Observatory in Ft. Davis TX. An AC power distribution grid is laid down, and Internet access is provided
via 802.11b, using 802.11a for back haul.

The TSP lasts a week so there is time to do some mountain top testing of our gear. It is a long drive and on the way back, two of us did some range, link and timeout experiments sending IP video between vehicles.

I have some reading to do as your group seems to be one of the few other HSMM / 802.11 groups I know of.

-Glenn
KD5MFW
cell phone 512-913-9174

Kilgore <kilgore1317@...> wrote:

We're using HSMM here in Dallas. Next event is the Wild Ride Bike Rally on May 17th. Four reststops are connected to internet in

some manner - 802.11 or D-star. Digital photos are uploaded to web site then processed and made available. At the Start/Finish line a large screen video display show almost realtime photos to returning rides. Logos of sponsor are shown also.

Watch this URL. Right now it's loaded with last year's photos. We'll be testing and on May 17th we'll be live again.

Doug Kilgore KD5OUG
Ph 972-231-8539
kd5oug@...

<http://us.rd.yahoo.com/evt=51733/*http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ%20>

[Non-text portions of this message have been removed]

1228. HSMM in the Austin TX area

Yahoo group: DAWG-HSMM
Date: 2008-05-02 16:11:23 UTC
From: Glenn Currie
Topic: 1228 Message: 1228

Greetings from Glenn Currie, KD5MFW

The ARCHES system:
<http://www.your-website-in-24-hours.com/travishams/tcares.org/index.php?option=com_content&task=blogcategory&id=14&Itemid=26>

Has been working well. We originally installed stations at all 9 of the major hospitals in the Austin area(at this time the area is growing quickly and more hospitals and clinics are popping up all around here).

We have done a number of Simulated Emergency Tests with the City of Austin and Travis County EOC. The system worked very well. We were later contacted by a group of central Texas clinics who wanted to set up a similar system and tie into our ARCHES system.

The City of Austin and Travis County EOC is resource central for our area. If you can get them information on an emergency, they are in a position to deploy resources. By the time we get all the clinics in surrounding towns linked in, we will have something like 40 stations or more. With a 9 Austin area hospital SET, we soaked the available packet channels.

My suggestion, back in 2003 was to move some of the local traffic off of 2m / 440 and open up some fat pipes with microwave links - between locations where it was feasible. In a dense urban area like Austin, if you have good locations you can use HSMM to handle a lot of the local traffic, and leave the 2m / 440 frequencies for the folks in Taylor, Llano, San Marcos, Luling etc. to come in on. The links are slower, but the 2m / 440 propagation works like a champ for them - if they are not completely jammed with local Austin traffic. I continue to promote the idea and have some excellent help here in the Austin area.

We also have a couple of Winlink 2000 related stations in the area, one in Williamson County, just north of Austin, and one at the nice ham station they built for us at CTECC where the City of Austin and Travis County have their EOC. We also have the State of Texas EOC in town, and some of our group members help staff the ham station there. The NVIS links works well for a lot of situations that other modes do not.

As far as the consumer 802l.11 gear goes...

First we tried the 802.11b radios to see if they would be worth messing with. NG5V and I did some testing at the Canyon of the Eagles Observatory. We did a 1 mile link with little trouble - 30mw, WAP-11, 24dB dish on one end and 14db panel on the other end, connected to

a laptop PCMCIA card.

Some time later NG5V, AD5OO, and I met in a shopping mall parking lot in Austin, pulled up a topo map on a laptop and picked some likely high points in the area to try links.

We deployed and within an hour we had each set up our stations. I picked the parking garage of one of our ARCHES supported hospitals in south Austin. NG5V set up in NE Austin but was blocked by ground clutter (Trees).
I suggested AD5OO try from a particular parking garage I was familiar in north Austin. "You really want to go for the gusto! he said, that's 10 miles across downtown Austin". The path crossed over the super heavily 802.11 rich west campus area of The University of Texas.

Using the computer topo map I tried pointing my 24dB BBQ grill dish (salvaged) at NG5V. We coordinated over 440 simplex,and he said he had good elevation but had no good way to get over the trees in the area. I then aimed at AD500's position and within 5 minutes, had a link.

AD5OO was using a Linksys WRT54G router in AP mode, and I used NetStumbler to find him. Once the link was made, we were able to transmit, error free (ftp)a 10 MB file. It took a while as it was a windy night and AD500 was using a small MFJ Yogi that was not enclosed in PVC and he said, "it is shaking like a leaf in the wind". I could see the bursts of packets - a pause, then as another bust of packets came in. The 802.11b PHY and FTP beat on the file until it got through without error.
(our longest link with the same equipment, was a brief 16.5 mile link, from south Austin, to far north Austin / Round rock - Martin Hill.)

We went and had a victory dinner and discussed how the 802.11 radios had potential. My station was made from a salvaged antenna, a "Frankenstein" laptop computer running Linux and an Orinoco Silver 802.11 PCMCIA card - all purchased at the Goodwill Computer Works, second hand store in Austin. We were running about 30mw and it worked. Since then, we have better antennas and tripods, and can repeat the 10 mile "sweet spot" link - at will.

We started meeting at the Red Cross ever second Tuesday night of the month to continue our work. We tried a number of links and the basic radios were fine, but we would spend the whole meeting trying to get everyone's computer and radio link set up and the network addressing set up.

So the radios were fine, but configuring this stuff, during an emergency, in the field, was for the birds. So, I mentioned that I had been reading about "mesh" network stuff for years and was sure there was military and commercial equipment that was making good use of the techniques, but was there anybody doing anything

interesting and open sourced, on the Internet?

AD5OO looked and the first thing he came across was some work done by a grad student regarding Optimum Link State Routing (OLSR) for mesh networks. The student needed a cheap platform for development and testing so he used OpenWrt firmware on a WRT54G and published his work and code. There are many details, but AD5OO got the OLSR firmware built and he, NG5V and I loaded it in our 54G routers. It works amazingly well.

You assign static IP addresses to each mesh node. The OLSR code updates all of the 1 and 2 hop links it can see, every 2 seconds. This allows nodes to link, go away and relink without any user intervention. If you have more than one path between two nodes passing data, the OLSR code automatically switches to an alternate route - again with no user intervention. Most of the time you will never notice - with video, you may see a brief pause.

If you power up a mesh node where others are active, it will come up link and be passing traffic in about 30 seconds. If you have a mobile node on, and come into range, they nodes will link in about 5 seconds.

For easy testing we assign some static IP addresses to some IP video cameras on the wired side of each 54G mesh node. The IP camera serves up its compressed JPEG video, on a web page it generates. You can punch in the IP address for the camera on a particular mesh node and it is either there or not. If you get a link you can watch the video on any web browser supporting Java or Direct-X, That is, Internet Explorer or Mozilla etc. At this level the sw does not know or care if you are running Linux, MS-Windows, Mac OS etc.

The long drive back from last years Texas Star Party AD5OO and I spent hours passing live video and FTPing files between vehicles, traveling at 80 mph. It was great fun. We collected data on when FTP would finally give up on a 10 MB transfer as well as a few other metrics. Side by side at 80 MPH the 10 MB file took less than 10 seconds. When we would get a mile or more apart on the I-10 test course, we could loose site of each other over hills and around turns, but the OLSR would relink us as soon as it got enough signal. The 10 MB file once took about 120 seconds before it finished the transfer. Beyond that, I think we were hitting time out limits in the code. (more research to do)

Watching the web browser video, the picture would be moving just fine, then freeze frame when we lost link, and when we relinked, the video restarted, with no user intervention.

Although our initial project is to connect hospital and other high value sites in our area, I hope to move on to store and forward links as well. The hospitals are always located near main roads in the area, and could pass traffic between fixed nodes and mobile

nodes using a technique sometimes called a "data mule" All the
mesh nodes need not be linked all the time to be useful. The mobile
units pass data as bees polinating plants.

AD5OO did some "drive by shootings" to show that a reasonable amount
of data could be transferred from a mobile node to a fixed node at
a drive by speed of 60 mph. He set the fixed link on the side of
a road, on one side of a hill and drove back and forth both ways
to collect data on the link. The antennas were not optimized nor
was their location.

Many area hams commute to work each day on the major roads. With
a store and forward network, they could act as data mules.

I read a lot of academic papers on robots and communications. The
net is great or that. I am a founding member and on the board of
directors for The Robot Group Inc. a 501(c)3 organization in Austin.
I was on one of the teams that entered an autonomous vehicle in the DARPA
Grand Challenge for a robot vehicle to self navigate a 130 mile
course, off road, with no human assistance. Our robot "Marvin"
did not win but we made it to the finals.

I mention this because there are a lot of ideas out there now that
ham radio can make use of, some really slick new stuff. A lot of
the ideas for our Austin HSMM projects come from the stuff I, and
several other members read and share. The ideas are not completely
original, but most have not been applied to ham radio, and they
can be. It takes a group to get these ambitious projects working.
Papers on Disruption (or Delay) Tolerant Networks (DTN) are popular
with the military and others. They are being used for specific
reasons, but ARES has always tried to help when regular communications
is unavailable and it is a natural for ham radio.
"Regular" communications includes computer network and / or Internet
access these days.

Our mesh network can stand on its own with no connection to the
Internet, but with "throw boxes" and other portable packaging,
the mesh nodes can be rapidly deployed to set up and expand the
mesh - and if any one mesh node can get an Internet link, all nodes
will have access within about 5 seconds. We intend to be a
separate network than the ones used by the hospitals, but if
a situation should occur, where normal network links are down,
We can offer the IT guy in the building an CAT-5 cable and tell
him that "I have links to these locations, at these addresses,
at these speeds - do you want to plug it into your network until
regular service is restored?"

We continue our HSMM work here in the Austin area. Most of the
nodes are mobile but the one at the Red Cross has been on the air
for nearly two years. We have one on the roof of one of the hospitals.
Working with the rest of the served agencies is more of a diplomatic
and administrative task than a technical one.

Some ask about security. I came across a posting from LX1TB (in German) showing how to modify the crystal in the WRT54G RF section, to lower the channels more into the ham band. We tried it and in initial testing it works fine. You are no longer 802.11 compliant so 802.11 gear does all it can to ignore you, even if you slide down back into the shared portion of the ISM band. You are between 802.11 channels, and are "invisible" to 802.11 sniffers. The hackers have to find you to mess with you. Do as the matadors do, and side step the issue with a 58 cent crystal change.

Lots more work to do. Lots more questions to clear discuss and answer. We need microwave, software and networking experts to help.

This stuff is quite interesting and if I can set up a station from parts from the second hand store and side step most hackers with a 58 cent crystal change, the spirit of ham radio is alive and well, there is just new stuff to work with.

I gave the first presentation on our work in April 2007 to the Austin Amateur Radio Club. The HSMM group grew switly after that. I did a second presentation to the Armadillo Repeater organization, and one to the Williamson County Amateur Radio club. With these three presentations we have had a lot of help and offers site locations - more than we can deal with in our spare time.

We are proceeding as resources allow. I have not given any more presentations lately as I have gigabytes of site surveys, topo cross sections, NetStumbler and Kismet survey data to process and work on some new hw and sw. We are on version 2 of our mesh-node fw. The WRT54GL is about 98% of what we need for basic mesh node units. but we are experimenting with a variety of router development boards, and portable servers with no moving parts.

The work you guys have done with the balloon race is impressive and it is most helpful that you have posted the information.

73's
KD5MFW

--- In ntms-hsmm@yahoogroups.com, Kilgore <kilgore1317@...> wrote:
>
> Glenn -
>
> I'm posting this message to the Yahoo group. What you are doing is very
> interesting.
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> Doug Kilgore KD5OUG
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> -------- Original Message --------
> Subject: HSMM in the Austin TX area
> Date: Thu, 1 May 2008 17:53:36 -0700 (PDT)
> From: Glenn Currie <kd5mfw_7@...>
> To: Kilgore <kilgore1317@...>, kd5mfw_7@...
>

>
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> Doug,
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> -Glenn
> KD5MFW
> cell phone 512-913-9174
>
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> Watch this URL. Right now it's loaded with last year's photos.
> We'll be testing and on May 17th we'll be live again.
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> Doug Kilgore KD5OUG
> Ph 972-231-8539
> kd5oug@...
>
>

> <http://us.rd.yahoo.com/evt=51733/*http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ%20>
>
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> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

1229. RE: [ntms-hsmm] HSMM in the Austin TX area

Yahoo group: DAWG-HSMM
Date: 2008-05-02 20:11:21 UTC
From: John Champa
Topic: 1228 Message: 1229

Glenn,

Do you have some photos you could send me? Direct is OK.

k8ocl@...

I would like to use some this excellent material in the next CQ-VHF
HSMM column along with some previous material from this reflector.

Thanks,
John, K8OCL

To: ntms-hsmm@yahoogroups.com; kd5mfw_7@...: kd5mfw_7@...: Fri, 2 May 2008 09:11:23 -0700Subject: [ntms-hsmm] HSMM in the Austin TX area

Greetings from Glenn Currie, KD5MFWThe ARCHES system:<http://www.your-website-in-24-hours.com/travishams/tcares.org/index.php?option=com_content&task=blogcategory&id=14&Itemid=26>Has been working well. We originally installed stations at all 9 of the major hospitals in the Austin area(at this time the area is growing quickly andmore hospitals and clinics are popping up all around here).We have done a number of Simulated Emergency Tests with the City of Austin and Travis County EOC. The system worked very well. Wewere later contacted by a group of central Texas clinics who wantedto set up a similar system and tie into our ARCHES system.The City of Austin and Travis County EOC is resource central forour area. If you can get them information on an emergency, theyare in a position to deploy resources. By the time we get all theclinics in surrounding towns linked in, we will have something like40 stations or more. With a 9 Austin area hospital SET, we soakedthe available packet channels.My suggestion, back in 2003 was to move some of the local trafficoff of 2m / 440 and open up some fat pipes with microwave links - between locations where it was feasible. In a dense urban arealike Austin, if you have good locations you can use HSMM to handlea lot of the local traffic, and leave the 2m / 440 frequencies forthe folks in Taylor, Llano, San Marcos, Luling etc. to come in on.The links are slower, but the 2m / 440 propagation works like a champ for them - if they are not completely jammed with local Austin traffic.I continue to promote the idea and have someexcellent help here in the Austin area. We also have a couple of Winlink 2000 related stations in the area,one in Williamson County, just north of Austin, and one at the niceham station they built for us at CTECC where the City of Austinand Travis County have their EOC. We also have the State of TexasEOC in town, and some of our group members help staff the ham stationthere. The NVIS links works well for a lot of situations that other modes do not. As far as the consumer 802l.11 gear goes...First we tried the 802.11b radios to see if they would be worthmessing with. NG5V and I did some testing at the Canyon of the Eagles Observatory. We did a 1 mile link with little trouble - 30mw, WAP-11,24dB dish on one end and 14db panel on the other end, connected toa laptop PCMCIA card.Some time later NG5V, AD5OO, and I met in a shopping mall parkinglot in Austin, pulled up a topo map on a laptop and picked somelikely high points in the area to try links.We deployed and within an hour we had each set up our stations.I picked the parking garage of one of our ARCHES supported hospitalsin south Austin. NG5V set up in NE Austin but was blocked byground clutter (Trees). I suggested AD5OO try from a particular

parkinggarage I was familiar in north Austin. "You really want to go forthe gusto! he said, that's 10 miles across downtown Austin". Thepath crossed over the super heavily 802.11 rich west campus area ofThe University of Texas.Using the computer topo map I tried pointing my 24dB BBQ grill dish(salvaged) at NG5V. We coordinated over 440 simplex,and he saidhe had good elevation but had no good way to get over the trees inthe area. I then aimed at AD500's position and within 5 minutes, hada link.AD5OO was using a Linksys WRT54G router in AP mode, and I usedNetStumbler to find him. Once the link was made, we were ableto transmit, error free (ftp)a 10 MB file. It took a while as itwas a windy night and AD500 was using a small MFJ Yogi that wasnot enclosed in PVC and he said, "it is shaking like a leaf inthe wind". I could see the bursts of packets - a pause, thenas another bust of packets came in. The 802.11b PHY and FTP beat on the file until it got through without error.(our longest link with the same equipment, was a brief 16.5 mile link, fromsouth Austin, to far north Austin / Round rock - Martin Hill.)We went and had a victory dinner and discussed how the 802.11radios had potential. My station was made from a salvaged antenna,a "Frankenstein" laptop computer running Linux and an Orinoco Silver802.11 PCMCIA card - all purchased at the Goodwill Computer Works,second hand store in Austin. We were running about 30mw and itworked. Since then, we have better antennas and tripods, and canrepeat the 10 mile "sweet spot" link - at will. We started meeting at the Red Cross ever second Tuesday night ofthe month to continue our work. We tried a number of links andthe basic radios were fine, but we would spend the whole meetingtrying to get everyone's computer and radio link set up and the network addressing set up.So the radios were fine, but configuring this stuff, during anemergency, in the field, was for the birds. So, I mentioned thatI had been reading about "mesh" network stuff for years and wassure there was military and commercial equipment that was makinggood use of the techniques, but was there anybody doing anythinginteresting and open sourced, on the Internet?AD5OO looked and the first thing he came across was some workdone by a grad student regarding Optimum Link State Routing (OLSR)for mesh networks. The student needed a cheap platform for development andtesting so he used OpenWrt firmware on a WRT54G and published hiswork and code. There are manydetails, but AD5OO got the OLSR firmware built and he, NG5V andI loaded it in our 54G routers. It works amazingly well.You assign static IP addresses to each mesh node. The OLSR codeupdates all of the 1 and 2 hop links it can see, every 2 seconds.This allows nodes to link, go away and relink without any userintervention. If you have more than one path between two nodespassing data, the OLSR code automatically switches to an alternateroute - again with no user intervention. Most of the time you willnever notice - with video, you may see a brief pause.If you power up a mesh node where others are active, it will comeup link and be passing traffic in about 30 seconds. If you have amobile node on, and come into range, they nodes will link in about 5 seconds.For easy testing we assign some static IP addresses to some IP videocameras on the wired side of each 54G mesh node. The IP cameraserves up its compressed JPEG video, on a web page it generates.You can punch in the IP address for the camera on a particular mesh node and it is either there or not. If you get a link youcan watch the video on any web browser supporting Java or Direct-X,That is, Internet Explorer or Mozilla etc. At this level the swdoes not know or care if you are running Linux, MS-Windows, Mac OSetc.The long drive back from last years Texas Star Party AD5OO and Ispent hours passing live video and FTPing files between vehicles,traveling at 80 mph. It was great fun. We collected data on whenFTP would finally give up on a 10 MB transfer as well as a few othermetrics. Side by side at 80 MPH the 10 MB file took less than10 seconds. When we would get a mile or more apart on the I-10test course, we could loose site of each other over hills and around turns, but the OLSR would relink us as soon as it gotenough signal. The 10 MB file once took about 120 seconds beforeit finished the transfer. Beyond that, I think we were hittingtime out limits in the code. (more research to do)Watching the web browser video, the picture would be moving justfine, then freeze

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gigabytes of site surveys, topo cross sections, NetStumbler andKismet survey data to process and work on some new hw and sw. We are onversion 2 of our mesh-node fw. The WRT54GL is about 98% of what we needfor basic mesh node units. but we are experimenting with a variety of routerdevelopment boards, and portable servers with no moving parts.The work you guys have done with the balloon race is impressive and it ismost helpful that you have posted the information.73'sKD5MFW--- In ntms-hsmm@yahoogroups.com, Kilgore <kilgore1317@...> wrote:>> Glenn -> > I'm posting this message to the Yahoo group. What you are doing is very > interesting.> > Doug Kilgore KD5OUG> > -------- Original Message --------> Subject: HSMM in the Austin TX area> Date: Thu, 1 May 2008 17:53:36 -0700 (PDT)> From: Glenn Currie <kd5mfw_7@...>> To: Kilgore <kilgore1317@...>, kd5mfw_7@...> > > > Doug,> > Glad to be on your list. I briefly talked to N5OOM after a presentation he> gave here at Summerfest a couple of years ago. > > We have a system of 2m / 440 voice and packet radio systems set up> in the hospitals in Austin, and the system is now being expanded to other> central Texas towns. > > Our HSMM group has done some testing to augmenting some of the sites> here in Austin, with HSMM links. The test results have been quite good.> We building up a microwave mesh in our area.> > Several of us work with the Texas Star Party each year. TSP is a gathering> of ~800 astronomers from around the world that set up their gear and do> observing from the Prude Ranch, near the McDonald Observatory in Ft. Davis> TX. An AC power distribution grid is laid down, and Internet access is > provided> via 802.11b, using 802.11a for back haul.> > The TSP lasts a week so there is time to do some mountain top testing of> our gear. It is a long drive and on the way back, two of us did some range,> link and timeout experiments sending IP video between vehicles.> > I have some reading to do as your group seems to be one of the few other> HSMM / 802.11 groups I know of.> > -Glenn> KD5MFW> cell phone 512-913-9174> > Kilgore <kilgore1317@...> wrote:> > We're using HSMM here in Dallas. Next event is the Wild Ride Bike> Rally on May 17th. Four reststops are connected to internet in> some manner - 802.11 or D-star. Digital photos are uploaded to web> site then processed and made available. At the Start/Finish line a> large screen video display show almost realtime photos to returning> rides. Logos of sponsor are shown also.> > Watch this URL. Right now it's loaded with last year's photos. > We'll be testing and on May 17th we'll be live again.> > Doug Kilgore KD5OUG> Ph 972-231-8539> kd5oug@...> > > <http://us.rd.yahoo.com/evt=51733/*http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ%20> > > > > [Non-text portions of this message have been removed]>----------Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try it now.[Non-text portions of this message have been removed]

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1230. Re: [ntms-hsmm] 08 Wild Ride Test

Yahoo group: DAWG-HSMM
Date: 2008-05-02 21:07:45 UTC
From: Kipton Moravec
Topic: 1224 Message: 1230

I wanted to let you folks know last weekend we did a trial run of the Wild Ride 08, HSMM setup.

John N5OOM and I drove down some back roads around Lake Lavon, and came upon a 70' ham tower on a hill overlooking the lake. The gate had the last name ☐Kellow, and it turned out to be a member of the Richardson Club. We found it was Bob, W5LT.

He let us come over last Saturday, and mount one of our units on his tower. He has the coolest tilt over tower. He lowered it, we clamped our unit on to his big boom antenna, and taped the CAT5 cable down the tower.☐ Then he raised the tower, and we were on the air.

☐I placed one of our routers inside the house, to isolate our network from his house network. And hooked up to his high speed Internet connection. We run 12V PoE over the unused Ethernet wires so we do not have to run separate power lines.

We were able to connect immediately with our laptops, and get the Google web page, but had difficulties with the other routers. After many reboots and configuration changes we finally turned off WEP security and was able to connect to the other routers.

By this time it was dark, but we wanted to see if it would work. I had a 24 db antenna in a tripod in the back of my truck, and John had a 8 db omnidirectional antenna on his SUV rack. Both were setup with Horizontal polarity, like the antenna on the tower.

We had no problems at the Lavon Dam, 4.5 miles both my 24 db directional antenna
and John's 8 db omni-directional got it.

Since we were in the area, we decided to go to Nevada this would be a 9.7 mile hop. We did not have high expectations because we could not get to the area that had clear line-of-sight by car, and we were not going to run around a school yard
at night in the dark.

We got as close as we could, but there was a tree line in between W5LT and the Nevada school parking lot. The 8 db omni could not connect. But after adjusting the 24 db pointing direction, we could see it, then we could ping it, and finally we were able to log into the router on top of W5LT's tower!

There was joy in Nevada.

We still have to figure out why we could not connect with WEP turned on. But we were able to make the links. 9.7 miles is the longest distance I have been able to reach.

Kip

On Fri, 2008-04-25 at 15:19 +0000, J. Beadles wrote:
> For the Richardson WildRide! Bike Rally this year, we're going to
> attempt to provide internet access to rest stops 2 & 3 using Wifi
> bridges from W5LT who lives on the west side of Lake Lavon. We'll be
> out starting to work it at about 9am tomorrow morning. The goal is to
> install the head end on the W5LT's 70 ft tower and then go to RS2 and
> RS3 to test.
>
> Hams interested in participating should be in the Lake Lavon area
> somewhere in that time frame. We'll coordinate on the PARK 440
> repeater, 444.25+ pl 79.7.

> ---

--
Kipton Moravec KE5NGX
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1231. Re: HSMM in the Austin TX area

Yahoo group: DAWG-HSMM
Date: 2008-05-02 22:01:48 UTC
From: J. Beadles
Topic: 1228 Message: 1231

--- In ntms-hsmm@yahoogroups.com, Glenn Currie <kd5mfw_7@...> wrote:

> My suggestion, back in 2003 was to move some of the local traffic
> off of 2m / 440 and open up some fat pipes with microwave links -
> between locations where it was feasible. In a dense urban area
> like Austin, if you have good locations you can use HSMM to handle
> a lot of the local traffic, and leave the 2m / 440 frequencies for
> the folks in Taylor, Llano, San Marcos, Luling etc. to come in on.
> The links are slower, but the 2m / 440 propagation works like a
> champ for them - if they are not completely jammed with local Austin
traffic.
> I continue to promote the idea and have some
> excellent help here in the Austin area.

Bingo! That's exactly why I like this stuff. Incidentally, KM5I just
signed up to present Winlink Telpac and APRS - Simultaneous operation
from one "box" at Ham-Com, so you might be interested in that.

1232. Re: HSMM in the Austin TX area

Yahoo group: DAWG-HSMM
Date: 2008-05-02 22:32:06 UTC
From: Glenn
Topic: 1228 Message: 1232

I would definitely be interested in your presentation. It is unlikely that I will be able to attend Ham-Com.

I am glad to see some promotion of these ideas. It takes a long time to get this stuff done in your spare time. One of the early steps is to get folks to understand that these things can and should be linked.

When not being used for an event, some of the area ARCHES stations forward APRS data. One of the stations in central Austin, has done a world of good for the coverage in Austin. Before this, we only had reasonable coverage in extreme north and south Austin.

-Glenn
KD5MFW

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <n5oom@...> wrote:
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1233. RE: [ntms-hsmm] HSMM in the Austin TX area

Yahoo group: DAWG-HSMM
Date: 2008-05-03 19:37:13 UTC
From: Glenn Currie
Topic: 1228 Message: 1233

John,

As soon as I got your message, I sent out email to members of the group that have photos. I was messing with the equipment and not behind the camera much. The only shots I have were taken with my cell phone camera which is probably way too low res for publication.

I will get back with you when I get some replies.

What type of photos would you be interested in?
Antennas, portable nodes, people on towers mounting antennas, mobile operation? I still have real low res video of our first USB video camera working at Field Day in 2003 - it is REALLY low res as the camera was from the Goodwill second had computer store here in Austin, and it was old for it's time even then.

I will do what I can to round up some photos.

There are a lot of details I had to gloss over in the summary I posted. As I put together the first presentation I did for the AARC April of last year, I realized the subject of every slide could be the basis for a presentation of its own. If you have any questions about the material I posted, let me know. I would not like to overstate or understate the efforts of the group.

I have not rounded up the estimated figures for last year, but in 2006 I came across sales figures of > 2 million WiFi devices sold - most, if not all of which, could be used as ham radios. It is just too easy and cheap not to experiment with!

I will let you know what I find out about the photos.
I will need to get then permission of the photographer and those in the photos, for smooth sailing.

-Glenn

John Champa <k8ocl@...> wrote:
Glenn,

Do you have some photos you could send me? Direct is OK.

k8ocl@...

I would like to use some this excellent material in the next CQ-VHF HSMM column along with some previous material from this reflector.

Thanks,
John, K8OCL

To: ntms-hsmm@yahoogroups.com; kd5mfw_7@...: kd5mfw_7@...: Fri, 2 May 2008 09:11:23 -0700Subject: [ntms-hsmm] HSMM in the Austin TX area

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From: Glenn Currie <kd5mfw_7@...>> To: Kilgore <kilgore1317@...>, kd5mfw_7@...> > > > Doug,> > Glad to be on your list. I briefly talked to N5OOM after a presentation he> gave here at Summerfest a
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removed]>---------------------------------Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try it
now.[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try it now.

[Non-text portions of this message have been removed]

1234. RE: [ntms-hsmm] HSMM in the Austin TX area

Yahoo group: DAWG-HSMM
Date: 2008-05-04 06:24:16 UTC
From: John Champa
Topic: 1228 Message: 1234

Glenn,

The type of photos that work well are close-in shots of people and gear, especially any antenna (describe / name the antenna, if needed).

Always try to include people, if only for scale. A hand pointing or adjusting something. And, always ID the folks completely with full name and call sign... even if it is only their hand, or the back of their head (HI).

Cell phone shots are OK, as long as identified as such. Folks understand.

Please give photo credit when ever possible e.g. (Photo by Glenn, KD5MFW) or what ever you like folks to call you.

Many thanks. This should make a fun HSMM article!

BTW, I keep all the HSMM stuff folks send to me. Even if I can't get it all into an article, it may show up later in the Second Edition of the ARRL VHF DigitalHandbook in 2010, etc. (HI)

73,
John, K8OCL

To: ntms-hsmm@yahoogroups.com
From: kd5mfw_7@...
Date: Sat, 3 May 2008 12:37:13 -0700
Subject: RE: [ntms-hsmm] HSMM in the Austin TX area

John,

As soon as I got your message, I sent out email to members of

the group that have photos. I was messing with the equipment

and not behind the camera much. The only shots I have were

taken with my cell phone camera which is probably way too low

res for publication.

I will get back with you when I get some replies.

What type of photos would you be interested in?

Antennas, portable nodes, people on towers mounting

antennas, mobile operation? I still have real low res

video of our first USB video camera working at Field Day in

2003 - it is REALLY low res as the camera was from the Goodwill

second had computer store here in Austin, and it was old for

it's time even then.

I will do what I can to round up some photos.

There are a lot of details I had to gloss over in the summary

I posted. As I put together the first presentation I did for the

AARC April of last year, I realized the subject of every slide could

be the basis for a presentation of its own. If you have any questions

about the material I posted, let me know. I would not like to overstate

or understate the efforts of the group.

I have not rounded up the estimated figures for last year, but in 2006

I came across sales figures of > 2 million WiFi devices sold - most, if not

all of which, could be used as ham radios. It is just too easy and cheap

not to experiment with!

I will let you know what I find out about the photos.

I will need to get then permission of the photographer and

those in the photos, for smooth sailing.

-Glenn

John Champa <k8ocl@...> wrote:

Glenn,

Do you have some photos you could send me? Direct is OK.

k8ocl@...

I would like to use some this excellent material in the next CQ-VHF

HSMM column along with some previous material from this reflector.

Thanks,

John, K8OCL

To: ntms-hsmm@yahoogroups.com; kd5mfw_7@...: kd5mfw_7@...: Fri, 2 May 2008 09:11:23 -0700Subject: [ntms-hsmm] HSMM in the Austin TX area

Greetings from Glenn Currie, KD5MFWThe ARCHES system:<http://www.your-website-in-24-hours.com/travishams/tcares.org/index.php?option=com_content&task=blogcategory&id=14&Itemid=26>Has been working well. We originally installed stations at all 9 of the major hospitals in

the Austin area(at this time the area is growing quickly andmore hospitals and clinics are popping up all around here).We have done a number of Simulated Emergency Tests with the City of Austin and Travis County EOC. The system worked very well. Wewere later contacted by a group of central Texas clinics who wantedto set up a similar system and tie into our ARCHES system.The City of Austin and Travis County EOC is resource central forour area. If you can get them information on an emergency, theyare in a position to deploy resources. By the time we get all theclinics in surrounding towns linked in, we will have something like40 stations or more. With a 9 Austin area hospital SET, we soakedthe available packet

channels.My suggestion, back in 2003 was to move some of the local trafficoff of 2m / 440 and open up some fat pipes with microwave links - between locations where it was feasible. In a dense urban arealike Austin, if you have good locations you can use HSMM to handlea lot of the local traffic, and leave the 2m / 440 frequencies forthe folks in Taylor, Llano, San Marcos, Luling etc. to come in on.The links are slower, but the 2m / 440 propagation works like a champ for them - if they are not completely jammed with local Austin traffic.I continue to promote the idea and have someexcellent help here in the Austin area. We also have a couple of Winlink 2000 related stations in the area,one in Williamson County, just north of Austin, and one at the niceham station they built for us at CTECC where the City of Austinand Travis County have their EOC. We also have the State of TexasEOC in town, and some of our group members help staff the ham stationthere. The NVIS links works

well for a lot of situations that other modes do not. As far as the consumer 802l.11 gear goes...First we tried the 802.11b radios to see if they would be worthmessing with. NG5V and I did some testing at the Canyon of the Eagles Observatory. We did a 1 mile link with little trouble - 30mw, WAP-11,24dB dish on one end and 14db panel on the other end, connected toa laptop PCMCIA card.Some time later NG5V, AD5OO, and I met in a shopping mall parkinglot in Austin, pulled up a topo map on a laptop and picked somelikely high points in the area to try links.We deployed and within an hour we had each set up our stations.I picked the parking garage of one of our ARCHES supported hospitalsin south Austin. NG5V set up in NE Austin but was blocked byground clutter (Trees). I suggested AD5OO try from a particular parkinggarage I was familiar in north Austin. "You really want to go forthe gusto! he said, that's 10 miles across downtown Austin". Thepath crossed over the super heavily

802.11 rich west campus area ofThe University of Texas.Using the computer topo map I tried pointing my 24dB BBQ grill dish(salvaged) at NG5V. We coordinated over 440 simplex,and he saidhe had good elevation but had no good way to get over the trees inthe area. I then aimed at AD500's position and within 5 minutes, hada link.AD5OO was using a Linksys WRT54G router in AP mode, and I usedNetStumbler to find him. Once the link was made, we were ableto transmit, error free (ftp)a 10 MB file. It took a while as itwas a windy night and AD500 was using a small MFJ Yogi that wasnot enclosed in PVC and he said, "it is shaking like a leaf inthe wind". I could see the bursts of packets - a pause, thenas another bust of packets came in. The 802.11b PHY and FTP beat on the file until it got through without error.(our longest link with the same equipment, was a brief 16.5 mile link, fromsouth Austin, to far north Austin / Round rock - Martin Hill.)We went and had a victory dinner and

discussed how the 802.11radios had potential. My station was made from a salvaged antenna,a "Frankenstein" laptop computer running Linux and an Orinoco Silver802.11 PCMCIA card - all purchased at the Goodwill Computer Works,second hand store in Austin. We were running about 30mw and itworked. Since then, we have better antennas and tripods, and canrepeat the 10 mile "sweet spot" link - at will. We started meeting at the Red Cross ever second Tuesday

night ofthe month to continue our work. We tried a number of links andthe basic radios were fine, but we would spend the whole meetingtrying to get everyone's computer and radio link set up and the network addressing set up.So the radios were fine, but configuring this stuff, during anemergency, in the field, was for the birds. So, I mentioned thatI had been reading about "mesh" network stuff for years and wassure there was military and commercial equipment that was makinggood use of the techniques, but was there anybody doing

anythinginteresting and open sourced, on the Internet?AD5OO looked and the first thing he came across was some workdone by a grad student regarding Optimum Link State Routing (OLSR)for mesh networks. The student needed a cheap platform for development andtesting so he used OpenWrt firmware on a WRT54G and published hiswork and code. There are manydetails, but AD5OO got the OLSR firmware built and he, NG5V andI loaded it in our 54G routers. It works amazingly well.You assign static IP addresses to each mesh node. The OLSR codeupdates all of the 1 and 2 hop links it can see, every 2 seconds.This allows nodes to link, go away and relink without any userintervention. If you have more than one path between two nodespassing data, the OLSR code automatically switches to an alternateroute - again with no user intervention. Most of the time you willnever notice - with video, you may see a brief pause.If you power up a mesh node where others are active, it will comeup link and be

passing traffic in about 30 seconds. If you have amobile node on, and come into range, they nodes will link in about 5 seconds.For easy testing we assign some static IP addresses to some IP videocameras on the wired side of each 54G mesh node. The IP cameraserves up its compressed JPEG video, on a web page it generates.You can punch in the IP address for the camera on a particular mesh node and it is either there or not. If you get a link youcan watch the video on any web browser supporting Java or Direct-X,That is, Internet Explorer or Mozilla etc. At this level the swdoes not know or care if you are running Linux, MS-Windows, Mac OSetc.The long drive back from last years Texas Star Party AD5OO and Ispent hours passing live video and FTPing files between vehicles,traveling at 80 mph. It was great fun. We collected data on whenFTP would finally give up on a 10 MB transfer as well as a few othermetrics. Side by side at 80 MPH the 10 MB file took less than10 seconds. When we

would get a mile or more apart on the I-10test course, we could loose site of each other over hills and around turns, but the OLSR would relink us as soon as it gotenough signal. The 10 MB file once took about 120 seconds beforeit finished the transfer. Beyond that, I think we were hittingtime out limits in the code. (more research to do)Watching the web browser video, the picture would be moving justfine, then freeze frame when we lost link, and when we relinked,the video restarted, with no user intervention.Although our initial project is to connect hospital and other highvalue sites in our area, I hope to move on to store and forwardlinks as well. The hospitals are always located near main roadsin the area, and could pass traffic between fixed nodes and mobilenodes using a technique sometimes called a "data mule" All themesh nodes need not be linked all the time to be useful. The mobileunits pass data as bees polinating plants.AD5OO did some "drive by shootings" to show

that a reasonable amountof data could be transferred from a mobile node to a fixed node ata drive by speed of 60 mph. He set the fixed link on the side ofa road, on one side of a hill and drove back and forth both waysto collect data on the link. The antennas were not optimized norwas their location. Many area hams commute to work each day on the major roads. Witha store and forward network, they could act as data mules.I read a lot of academic papers on robots and communications. Thenet is great or that. I am a founding member and on the board ofdirectors for The Robot Group Inc. a 501(c)3 organization in

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From: Glenn Currie <kd5mfw_7@...>> To: Kilgore <kilgore1317@...>, kd5mfw_7@...> > > > Doug,> > Glad to be on your list. I briefly talked to N5OOM after a presentation he> gave here at Summerfest a

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1235. 400mw ERP USB Antenna

Yahoo group: DAWG-HSMM
Date: 2008-05-04 13:47:15 UTC
From: Kilgore
Topic: 1235 Message: 1235

Look at this wifi solution for RV's'
http://www.radiolabs.com/products/wireless/waverv.php

Doug KD5OUG

[Non-text portions of this message have been removed]

1236. WRT54GL APRS Gateway??

Yahoo group: DAWG-HSMM
Date: 2008-05-04 19:25:44 UTC
From: Kilgore
Topic: 1236 Message: 1236

Go to ebay.com and search on this number : 300220819072
It's a WRT54GL modified with a 2 Ghz memory card. It's a small linux
machine. Is it possible to run a serial port on the GL?

Doug KD5OUG

Yahoo! Groups Notification wrote:

>Hello,
>
>The following person would like to join the ntms-hsmm group:
>Email address: craiginhouston <wd5bdx@...>
>
>Comment from user:
>I want to use a linksys WRT54GL router to read APRS data from a TNC and
>forward it to a gateway on the internet
>
>
>

1237. Re: WRT54GL APRS Gateway??

Yahoo group: DAWG-HSMM
Date: 2008-05-05 00:06:54 UTC
From: Craig
Topic: 1236 Message: 1237

Hi Doug. I'm being told that there are two serial ports on the WRT54GL and GS version. Below are some links that explain how to get to them.

I would like to receive APRS packets from a TNC over RS232 and then have a linux script forward that data to the APRS gateway servers.

I would also like to do the same thing with Ships at sea. There is a system very similar to APRS for ships called AIS where ships broadcast their GPS location over VHF Marine channel 88 with 9600 baud data. There is more info at the shipplotter link below.

Craig
wd5bdx
Houston, Texas

Tracking ships at sea:
http://www.coaa.co.uk/shipplotter.htm
http://en.wikipedia.org/wiki/Automatic_Identification_System

Linksys WRT54GL serial port links:

http://www.youtube.com/watch?v=XGIRywLd0wo

http://www.i2cchip.com/linksys.html

http://www.linksysinfo.org/forums/showthread.php?t=47535

http://www.linuxelectrons.com/features/howto/consolidated-hacking-guide-linksys-wrt54gl?page=0%2C1

http://digg.com/linux_unix/The_Consolidated_Hacking_Guide_for_the_Linksys_WRT54GL

http://andrey.mikhalchuk.com/2008/02/23/how-to-build-an-inexpensive-yet-powerful-robot-how-to-turn-your-router-into-a-routerbot.html

http://andrey.mikhalchuk.com/2008/02/23/how-to-build-an-inexpensive-yet-powerful-robot-modify-the-router-so-it-can-control-servos.html

http://voidmain.is-a-geek.net/redhat/wrt54g_revival.html

http://www.cse.buffalo.edu/~bina/cse321/fall2007/Project3Oct23.doc

Doug Kilgore KD5OUG wrote:
>
> ... Is it possible to run a serial port on the GL?
>

> >
> >Comment from Craig wd5bdx:
> >I want to use a linksys WRT54GL router to read
> >APRS data from a TNC and forward it to a gateway
> >on the internet

1238. lots of WRT54G router mods on youtube

Yahoo group: DAWG-HSMM
Date: 2008-05-05 00:15:51 UTC
From: Craig
Topic: 1236 Message: 1238

when you go take a look at this WRT54GL serial port mod on youtube be sure to take a look at all the "related videos" on the list to the right. There are a lot of very interesting videos showing what people are doing with wireless routers

Craig
wd5bdx

http://www.youtube.com/watch?v=XGIRywLd0wo

1239. Re: [ntms-hsmm] Re: WRT54GL APRS Gateway??

Yahoo group: DAWG-HSMM
Date: 2008-05-05 17:16:45 UTC
From: Bill Vodall WA7NWP
Topic: 1236 Message: 1239

> Hi Doug. I'm being told that there are two serial ports on the
> WRT54GL and GS version. Below are some links that explain how to get
> to them.
>
> I would like to receive APRS packets from a TNC over RS232 and then
> have a linux script forward that data to the APRS gateway servers.

Check out:

http://www.dimebank.com/cak/k6dbg/k6dbg_aprs.html

and in particular:

http://www.aprs4r.org/cgi-bin/trac.cgi/wiki/WikiStart

73
Bill - WA7NWP

1240. DD-WRT

Yahoo group: DAWG-HSMM
Date: 2008-05-06 02:58:32 UTC
From: Jerry Karlovich, KD5OM
Topic: 1240 Message: 1240

Okie Dokie Smokies,

I flashed my WRT54Gv2 with the DD-WRT firmware and seems to be a successful upgrade.

I want to use it in a flat panel antenna, ethernet down to another WRT54G that will "repeat" to my laptop nearby. All this at the RV Park with free wifi but I don't have to be in the park store's parking lot to be able to aquire wifi. The flat panel antenna will be on a 20' pole facing the source (park store). I want to continue to be wireless with my laptop. Reason for the second WRT54G.

I have my SSID and WEP set on the DD-WRT and was able to connect to it on a different computer's wifi card. That's about how far I went in the configuration. I can quickly mess things up from what it looks like to me. I need a little help with what to do next.

Any givers?

Jerry KD5OM

1241. DD-WRT

Yahoo group: DAWG-HSMM
Date: 2008-05-06 05:30:50 UTC
From: icra@galaxynet.com
Topic: 1240 Message: 1241

I am not anything close to an expert on this stuff.....

The more I read up on it, the more I think DD-WRT may not be the best route for me to go....

Tomato sounds like it may be better and easier to use, but would like to get more input....

Any one here tried it?

Mel
N7OKL

1242. Re: DD-WRT

Yahoo group: DAWG-HSMM
Date: 2008-05-11 23:43:31 UTC
From: Steve
Topic: 1240 Message: 1242

I've used both, DD-WRT and Tomato. I still think DD WRT has more options. I suppose to some that can over complicate things.

I'm not real sure what you are trying to do, but I'd like to think DD WRT can do it..

http://www.dd-wrt.com/wiki/index.php/Universal_Wireless_Repeater

--- In ntms-hsmm@yahoogroups.com, icra@... wrote:
>
> I am not anything close to an expert on this stuff.....
>
> The more I read up on it, the more I think DD-WRT may not be the best route for me to go....
>
> Tomato sounds like it may be better and easier to use, but would like to get more input....
>
> Any one here tried it?
>
> Mel
> N7OKL
>

1243. WRT54G - Which antenna port?

Yahoo group: DAWG-HSMM
Date: 2008-05-13 03:32:09 UTC
From: Jerry Karlovich, KD5OM
Topic: 1243 Message: 1243

I'm installing my WRT54G into a flat panel antenna. As ya'll well know, the WRT has two antenna connections and the flat panel has one.

After examining the WRT PC board, both antennas connect to the same trace through U16. Obviously some sort of switching doodad.

Is it important which antenna connection I wire my flat panel to?

JK

1244. Re: [ntms-hsmm] WRT54G - Which antenna port?

Yahoo group: DAWG-HSMM
Date: 2008-05-13 03:47:20 UTC
From: Kilgore
Topic: 1243 Message: 1244

DD-WRT on WRT54GL has a place to select ant 1 or ant 2 or both. I've left both active in my Rootenna installation. One connected to high gain antenna and the other connected to a folded over antenna that came with unit.

Not sure about the WRT54G unit.

Doug

Jerry Karlovich, KD5OM wrote:

>I'm installing my WRT54G into a flat panel antenna. As ya'll well know,
>the WRT has two antenna connections and the flat panel has one.
>
>After examining the WRT PC board, both antennas connect to the same
>trace through U16. Obviously some sort of switching doodad.
>
>Is it important which antenna connection I wire my flat panel to?
>
>JK
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[Non-text portions of this message have been removed]

1245. Re: [ntms-hsmm] WRT54G - Which antenna port?

Yahoo group: DAWG-HSMM
Date: 2008-05-13 06:28:50 UTC
From: Kipton Moravec
Topic: 1243 Message: 1245

It does not matter which one you choose. Pick one and set the parameter in DD-WRT to use that antenna.

In normal operation, it uses the antenna with the strongest signal. At 2.4 GHz a move of a few inches can make a big difference in the signal. When you use a gain antenna, you want it to always use the gain antenna, so select the side the gain antenna is on with the DD-WRT software.

Kip

On Mon, 2008-05-12 at 22:47 -0500, Kilgore wrote:
> DD-WRT on WRT54GL has a place to select ant 1 or ant 2 or both. I've
> left both active in my Rootenna installation. One connected to high
> gain antenna and the other connected to a folded over antenna that came
> with unit.
>
> Not sure about the WRT54G unit.
>
> Doug
>
> Jerry Karlovich, KD5OM wrote:
>
> >I'm installing my WRT54G into a flat panel antenna. As ya'll well know,
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--
Kipton Moravec KE5NGX
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1246. Re: WRT54G - Which antenna port?

Yahoo group: DAWG-HSMM
Date: 2008-05-13 14:04:19 UTC
From: Jerry Karlovich, KD5OM
Topic: 1243 Message: 1246

Thanks guys,

I found buried in the DD-WRT menus the antenna selection. I guess it pays to look around.

Antenna 1 has a convenient pad to solder to so I suppose I'll use that one.

JK

1247. Re: [ntms-hsmm] Re: WRT54G - Which antenna port?

Yahoo group: DAWG-HSMM
Date: 2008-05-13 14:39:46 UTC
From: Kilgore
Topic: 1243 Message: 1247

I think I'd opt for getting an RP-TNC pigtail and not solder on the board.
One source: http://www.fab-corp.com/home.php?cat=286 ask for ham
discount.

Doug Kilgore KD5OUG

Jerry Karlovich, KD5OM wrote:

>Thanks guys,
>
>I found buried in the DD-WRT menus the antenna selection. I guess it
>pays to look around.
>
>Antenna 1 has a convenient pad to solder to so I suppose I'll use that
>one.
>
>JK
>
>
>

1248. Re: [ntms-hsmm] Re: WRT54G - Which antenna port?

Yahoo group: DAWG-HSMM
Date: 2008-05-13 14:48:59 UTC
From: Rusty Haddock
Topic: 1243 Message: 1248

Kilgore wrote:
>I think I'd opt for getting an RP-TNC pigtail and not solder on the board.
>One source: http://www.fab-corp.com/home.php?cat=286 ask for ham
>discount.

Also check at Tanner's. They've been carrying RP connectors for a
while now. I just can't remember if they had pig-tails to go with
them or not... and I wuz just in there Friday afternoon. :-\

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1249. RE: [ntms-hsmm] Re: WRT54G - Which antenna port?

Yahoo group: DAWG-HSMM
Date: 2008-05-13 15:10:02 UTC
From: John Champa
Topic: 1243 Message: 1249

I have used the pigtails from FAB Corp. They are excellent quality.
And they hold up very well with repeated use.

Also, I got a 10% Amateur Radio discount.

John, K8OCL

To: ntms-hsmm@yahoogroups.comFrom: rusty@...: Tue, 13 May 2008 09:48:59 -0500Subject: Re: [ntms-hsmm] Re: WRT54G - Which antenna port?

Kilgore wrote:>I think I'd opt for getting an RP-TNC pigtail and not solder on the board.>One source: http://www.fab-corp.com/home.php?cat=286 ask for ham >discount.Also check at Tanner's. They've been carrying RP connectors for awhile now. I just can't remember if they had pig-tails to go withthem or not... and I wuz just in there Friday afternoon. :-\-Rusty--- _____ Rusty Haddock <=> AE5AE|\/ o \ o Way out yonder in the| (-< O o Van Alstyne (TX) Metropolitan Area|/__V__/ Math illiteracy affects 7 out of 5 people!

[Non-text portions of this message have been removed]

1250. 08 Richardson WildRide! report

Yahoo group: DAWG-HSMM
Date: 2008-05-21 15:17:30 UTC
From: J. Beadles
Topic: 1250 Message: 1250

Photos from the 08 WildRide! HSMM task are on line at:

http://www.k5rwk.org/wr/

HSMM SYSTEMS

START-STOP

Start-Stop used three Wifi hops. Internet access was provided by the City of Richardson. There is no direct line of site to the net control location, so access was transmitted via wifi bridge to a repeater in the field next to start stop. The repeater was then connected to the net control location and to a computer hooked up to a wide screen TV which showed a live slide show of photos taken by the rest stop operators.

This system was configured by John N5OOM, Kip KE5NGX and Kevin KD5YVL. This system has been used for the past 3 years, and has proven to be very reliable.

REST STOP 1

There was no line of site to this location, so Doug KD5OUG arranged with a local realtor office to borrow access to their local wifi system.

REST STOP 2

In advance of the event, a drive survey was performed of potential high spots in the Lake Lavon area. It was found that Bob W5LT lives on the west side of the lake, and owns a 70ft tilt-over tower. Path profiles in Radio Mobile showed clear line of site to Rest Stops 2 and 3. A WRT54G in a 19dB rootenna was installed on Bob's tower. Testing showed that both paths worked.

This system used a single wifi hop 6.05 miles long. A 19 dB antenna was used at the feed end, and a 14 dB antenna at the rest stop. This system was configured by Kip KE5NGX and John N5OOM.

REST STOP 3

There is no direct line of site from W5LT's house to the actual rest stop, because the rest stop is blocked by a school at the rest stop end of the path. So, an 11.38 mile path was set up between W5LT and the school, and a second thousand foot hop brought internet to the rest stop. The two repeater stations at the school were connected via a 300 ft run of CAT-5 cable. This system was configured by Kip KE5NGX and John N5OOM.

REST STOP 4

There was no direct line of site to any particular internet feed, so Doug KD5OUG arranged with a local homeowner to borrow access to their existing wifi access point.

Notes: In past years, local hams have adopted a mast system consisting of a 16' push up flag pole from Harbor Freight. This often appears in local stores for about $35. (They have a 20' flag pole online). Conveniently, the flag pole perfectly fits a plastic roll over base from the online store Sportsmans Guide which sells for $24.

This year I made efforts to make the system install as tool free as possible. I installed several WRT54G radios in 14dB rootenna packages and fit them with RAM 1.5" ball mounts. A ram mount strap rail base (MFG P/N: RAM-108BU) goes on the mast, with a thumb-screw strap clamp holding the mount in place. The mast clamp on the rootenna was replaced with a ball on a 2.5 inch plate (MFG P/N: RAM-202U), with holes drilled to match the studs on the antenna. A plastic 2.25" arm (MFG P/N: RAP-201U-B) clamps the antenna to the mast. This system is a bit pricey, but really speeds assembly. Pictures of this system are on the above mentioned page, under the "Asst. Comm. Director" page.

Harbor Freight 18' flagpole
http://search.harborfreight.com/cpisearch/web/search.do?keyword=flagpole

Sportsmans Guide "Old Glory Tailgate Flag Base"
http://www.sportsmansguide.com/search/search.asp?r=Page%3A+%2FDefault.asp+KW+Box&s=SEARCH&a=search&k=flagpole

RAM 1.5" Ball Mounts
http://www.gpscity.com/search-1.5+c+ball+part

1251. IEEE 802.15.4 & ZigBee

Yahoo group: DAWG-HSMM
Date: 2008-05-23 18:55:07 UTC
From: John Champa
Topic: 1251 Message: 1251

Possible interest....

Free Webinar: Introduction to ZigBee Mesh Networking
- Sponsored by Digi International -
Title: Introduction to ZigBee Mesh Networking
Date: Wednesday, May 28, 2008Time: 2:00 pm Central Daylight Time (GMT -05:00, Chicago)
Register to Attend
Webinar Summary: What are 802.15.4 and ZigBee? and how do they compare to other wireless technologies? When would I want to use a simple 802.15.4 network versus deploying a self-forming, self-healing ZigBee mesh network? What does a coordinator do and what happens if it fails? With the release of the ZigBee 2007 standard, can we expect real interoperability? All of these questions will be answered in this introduction to 802.15.4 and ZigBee technologies webinar.Presented by Jordan Husney, Lead Engineer, Digi International
Key TakeawaysAn introduction to 802.15.4 point-to-multipoint and ZigBee mesh network formation, addressing, transmission styles and node types. Technical detail will be given on the node joining process, network address discovery, and ZigBee mesh network self-healing. Some time will also be spent contrasting the ZigBee 2006 and ZigBee 2007 feature sets. Key Product Focus
XBee? modules, XBee adapters, ConnectPort? X Gateways
Intended AudienceThose seeking a basic to intermediate understanding of ZigBee technologies in technical detail.

[Non-text portions of this message have been removed]

1252. Re: [ntms-hsmm] IEEE 802.15.4 & ZigBee

Yahoo group: DAWG-HSMM
Date: 2008-05-23 20:02:57 UTC
From: Kilgore
Topic: 1251 Message: 1252

What is the URL?

Doug

John Champa wrote:

>
>
>Possible interest....
>
>Free Webinar: Introduction to ZigBee Mesh Networking
>- Sponsored by Digi International -
>Title: Introduction to ZigBee Mesh Networking
>Date: Wednesday, May 28, 2008Time: 2:00 pm Central Daylight Time (GMT -05:00, Chicago)
>Register to Attend
>Webinar Summary: What are 802.15.4 and ZigBee® and how do they compare to other wireless technologies? When would I want to use a simple 802.15.4 network versus deploying a self-forming, self-healing ZigBee mesh network? What does a coordinator do and what happens if it fails? With the release of the ZigBee 2007 standard, can we expect real interoperability? All of these questions will be answered in this introduction to 802.15.4 and ZigBee technologies webinar.Presented by Jordan Husney, Lead Engineer, Digi International
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>XBee^(TM) modules, XBee adapters, ConnectPort^(TM) X Gateways
>Intended AudienceThose seeking a basic to intermediate understanding of ZigBee technologies in technical detail.
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1253. RE: [ntms-hsmm] IEEE 802.15.4 & ZigBee

Yahoo group: DAWG-HSMM
Date: 2008-05-23 20:48:56 UTC
From: John Champa
Topic: 1251 Message: 1253

Try this one...

Those links didn't make it through the reflector too well, did they (HI).

Try this one:

https://digi.webex.com/mw0305l/mywebex/default.do?nomenu=true&siteurl=digi&service=6&main_url=https%3A%2F%2Fdigi.webex.com%2Fec0600l%2Feventcenter%2Fevent%2EventAction.do%3FtheAction%3Ddetail%26confViewID%3D195840585%26siteurl%3Ddigi%26%26%26Other wise just go to www.digi.com

To: ntms-hsmm@yahoogroups.comFrom: kilgore1317@sbcglobal.netDate: Fri, 23 May 2008 15:02:57 -0500Subject: Re: [ntms-hsmm] IEEE 802.15.4 & ZigBee

What is the URL?DougJohn Champa wrote:> > >Possible interest....> >Free Webinar: Introduction to ZigBee Mesh Networking>- Sponsored by Digi International ->Title: Introduction to ZigBee Mesh Networking>Date: Wednesday, May 28, 2008Time: 2:00 pm Central Daylight Time (GMT -05:00, Chicago) >Register to Attend>Webinar Summary: What are 802.15.4 and ZigBee® and how do they compare to other wireless technologies? When would I want to use a simple 802.15.4 network versus deploying a self-forming, self-healing ZigBee mesh network? What does a coordinator do and what happens if it fails? With the release of the ZigBee 2007 standard, can we expect real interoperability? All of these questions will be answered in this introduction to 802.15.4 and ZigBee technologies webinar.Presented by Jordan Husney, Lead Engineer, Digi International>Key TakeawaysAn introduction to 802.15.4 point-to-multipoint and ZigBee mesh network formation, addressing, transmission styles and node types. Technical detail will be given on the node joining process, network address discovery, and ZigBee mesh network self-healing. Some time will also be spent contrasting the ZigBee 2006 and ZigBee 2007 feature sets. Key Product Focus>XBee^(TM) modules, XBee adapters, ConnectPort^(TM) X Gateways>Intended AudienceThose seeking a basic to intermediate understanding of ZigBee technologies in technical detail.>>[Non-text portions of this message have been removed]>>>----------->>Yahoo! Groups Links>>>>> >[Non-text portions of this message have been removed]

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1254. RE: [ntms-hsmm] IEEE 802.15.4 & ZigBee

Yahoo group: DAWG-HSMM
Date: 2008-05-25 22:45:07 UTC
From: John Barrett
Topic: 1251 Message: 1254

I've been researching ZigBee as part of a work project, and it is primarily a "home area network", slower than WiFi, longer range than Bluetooth, and apparently targeted at the home automation/integration market, and as such is much simpler and cheaper to integrate into microcontroller based systems than either WiFi or Bluetooth.

Possible amateur radio uses include short hop digital audio/command links, wireless replacement of rig control cables, and integration of sensing devices such as GPS or weather station components into an overall ZigBee connected system, providing the sensor data seamlessly to multiple data consumers such as APRS, mapping software, and so on. This would be beneficial from the point of view that the more common "nest of snakes" (USB and Serial cables) could be replaced by a common wireless backbone, and that the data which currently is available typically to only a single consumer application could be distributed among multiple applications without special programming, and without built in cooperation between the applications wishing to consume the data.

Most ZigBee radios implement a serial interface and AT style command set which allows full access to the features of ZigBee without complicated hardware interfacing, a feature which makes ZigBee particularly suitable for microcontroller based applications as most modern microcontrollers have one or more on-chip serial UARTs. If the chip in question has only a single UART and another is needed to talk to an external device such as a rig, GPS, or weather device, a "software" UART can be easily created from numerous example implementations available on the web.

What kinds of applications were y'all considering when you mentioned ZigBee ??

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of John Champa
Sent: Friday, May 23, 2008 3:49 PM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] IEEE 802.15.4 & ZigBee

Try this one...

Those links didn't make it through the reflector too well, did they (HI).

Try this one:

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<https://digi.webex.com/mw0305l/mywebex/default.do?nomenu=true&siteurl=digi&service=6&main_url=https%3A%2F%2Fdigi.webex.com%2Fec0600l%2Feventcenter%2Fev

ent%2FeventAction.do%3FtheAction%3Ddetail%26confViewID%3D195840585%26siteurl%3Ddigi%26%26%26Other>
webex.com/mw0305l/mywebex/default.do?nomenu=true&siteurl=digi&service=6&main_url=https%3A%2F%2Fdigi.webex.com%2Fec0600l%2Feventcenter%2Fevent%2FeventAction.do%3FtheAction%3Ddetail%26confViewID%3D195840585%26siteurl%3Ddigi%26%26%26Other wise just go to www.digi.com

To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.comFrom> ps.comFrom: kilgore1317@ <mailto:kilgore1317%40sbcglobal.netDate> sbcglobal.netDate: Fri, 23 May 2008 15:02:57 -0500Subject: Re: [ntms-hsmm] IEEE 802.15.4 & ZigBee

What is the URL?DougJohn Champa wrote:> > >Possible interest....> >Free Webinar: Introduction to ZigBee Mesh Networking>- Sponsored by Digi International ->Title: Introduction to ZigBee Mesh Networking>Date: Wednesday, May 28, 2008Time: 2:00 pm Central Daylight Time (GMT -05:00, Chicago) >Register to Attend>Webinar Summary: What are 802.15.4 and ZigBeeR and how do they compare to other wireless technologies? When would I want to use a simple 802.15.4 network versus deploying a self-forming, self-healing ZigBee mesh network? What does a coordinator do and what happens if it fails? With the release of the ZigBee 2007 standard, can we expect real interoperability? All of these questions will be answered in this introduction to 802.15.4 and ZigBee technologies webinar.Presented by Jordan Husney, Lead Engineer, Digi International>Key TakeawaysAn introduction to 802.15.4 point-to-multipoint and ZigBee mesh network formation, addressing, transmission styles and node types. Technical detail will be given on the node joining process, network address discovery, and ZigBee mesh network self-healing. Some time will also be spent contrasting the ZigBee 2006 and ZigBee 2007 feature sets. Key Product Focus>XBee^(TM) modules, XBee adapters, ConnectPort^(TM) X Gateways>Intended AudienceThose seeking a basic to intermediate understanding of ZigBee technologies in technical detail.>>[Non-text portions of this message have been removed]>>>----------->>Yahoo! Groups Links>>>>> >[Non-text portions of this message have been removed]

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1255. RE: [ntms-hsmm] IEEE 802.15.4 & ZigBee

Yahoo group: DAWG-HSMM
Date: 2008-05-26 00:38:20 UTC
From: John Champa
Topic: 1251 Message: 1255

John,

You are right on target! What I had in mind was the first item you mentioned:

"Possible amateur radio uses include short hop digital audio/command links..."

Specifically, with a BDA, longer range / smaller bandwidth 2.4 GHz links.

Are you going to the Plano Hamcom in June? Perhaps you would like to co-
present a joint paper on this subject?

73,
John, K8OCL

To: ntms-hsmm@yahoogroups.comFrom: ke5crp1@...: Sun, 25 May 2008 17:45:07 -0500Subject:
RE: [ntms-hsmm] IEEE 802.15.4 & ZigBee

I've been researching ZigBee as part of a work project, and it is primarilya "home area
network", slower than WiFi, longer range than Bluetooth, andapparently targeted at the home
automation/integration market, and as suchis much simpler and cheaper to integrate into
microcontroller based systemsthan either WiFi or Bluetooth.Possible amateur radio uses
include short hop digital audio/command links,wireless replacement of rig control cables,
and integration of sensingdevices such as GPS or weather station components into an overall
ZigBeeconnected system, providing the sensor data seamlessly to multiple dataconsumers
such as APRS, mapping software, and so on. This would bebeneficial from the point of view
that the more common "nest of snakes" (USBand Serial cables) could be replaced by a common
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chip in question has only a single UARTand another is needed to talk to an external device
such as a rig, GPS, orweather device, a "software" UART can be easily created from
numerousexample implementations available on the web.What kinds of applications were y'all
considering when you mentioned ZigBee??_____ From: ntms-hsmm@yahoogroups.com
[mailto:ntms-hsmm@yahoogroups.com] On BehalfOf John ChampaSent: Friday, May 23, 2008 3:49
PMTo: ntms-hsmm@yahoogroups.comSubject: RE: [ntms-hsmm] IEEE 802.15.4 & ZigBeeTry this
one...Those links didn't make it through the reflector too well, did they (HI).Try this on
e:https://digi.<https://digi.webex.com/mw0305l/mywebex/default.do?nomenu=true&siteurl=digi
&service=6&main_url=https%3A%2F%2Fdigi.webex.com%2Fec0600l%2Feventcenter%2Fevent%2EventAc
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.com/mw0305l/mywebex/default.do?nomenu=true&siteurl=digi&service=6&main_url=https%3A%2F%2F
digi.webex.com%2Fec0600l%2Feventcenter%2Fevent%2EventAction.do%3FtheAction%3Ddetail%26con
fViewID%3D195840585%26siteurl%3Ddigi%26%26%26Other wise just go to www.digi.comTo:
ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.comFrom> ps.comFrom:kilgore1317@

<mailto:kilgore1317%40sbcglobal.netDate> sbcglobal.netDate:Fri, 23 May 2008 15:02:57 -0500Subject: Re: [ntms-hsmm] IEEE 802.15.4 &ZigBeeWhat is the URL?DougJohn Champa wrote:> > >Possible interest....> >FreeWebinar: Introduction to ZigBee Mesh Networking>- Sponsored by DigiInternational ->Title: Introduction to ZigBee Mesh Networking>Date:Wednesday, May 28, 2008Time: 2:00 pm Central Daylight Time (GMT -05:00,Chicago) >Register to Attend>Webinar Summary: What are 802.15.4 and ZigBeeRand how do they compare to other wireless technologies? When would I want touse a simple 802.15.4 network versus deploying a self-forming, self-healingZigBee mesh network? What does a coordinator do and what happens if itfails? With the release of the ZigBee 2007 standard, can we expect realinteroperability? All of these questions will be answered in thisintroduction to 802.15.4 and ZigBee technologies webinar.Presented by JordanHusney, Lead Engineer, Digi International>Key TakeawaysAn introduction to802.15.4 point-to-multipoint and ZigBee mesh network formation, addressing,transmission styles and node types. Technical detail will be given on thenode joining process, network address discovery, and ZigBee mesh networkself-healing. Some time will also be spent contrasting the ZigBee 2006 andZigBee 2007 feature sets. Key Product Focus>XBee^(TM) modules, XBeeadapters, ConnectPort^(TM) X Gateways>Intended AudienceThose seeking a basicto intermediate understanding of ZigBee technologies in technicaldetail.>>[Non-text portions of this message have beenremoved]>>>----------->>Yahoo! Groups Links>>>>>>[Non-text portions of this message have been removed] [Non-text portions of this message have been removed][Non-text portions of this message have been removed]

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1256. RE: [ntms-hsmm] IEEE 802.15.4 & ZigBee

Yahoo group: DAWG-HSMM
Date: 2008-05-26 03:05:29 UTC
From: John Barrett
Topic: 1251 Message: 1256

Work permitting - it is something of a crash project and we have about 6-8 more weeks of deep work to complete. That said, I should have several ZigBee modules available later this week or early next week to play with. They are not on standard 0.1 centers, so I'll have to make an adapter board to hook them up to my development system. I'm working primarily with ATMega MCUs, but I will have a full PIC development and debugging setup available later this week. (The project is using both processors in various roles)

Contact me off list and lets figure out what we want to accomplish.

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of John Champa
Sent: Sunday, May 25, 2008 7:38 PM
To: ntms-hsmm@yahoogroups.com
Cc: John Beadles; Joe Lynch
Subject: RE: [ntms-hsmm] IEEE 802.15.4 & ZigBee

John,

You are right on target! What I had in mind was the first item you mentioned:

"Possible amateur radio uses include short hop digital audio/command links..."

Specifically, with a BDA, longer range / smaller bandwidth 2.4 GHz links.

Are you going to the Plano Hamcom in June? Perhaps you would like to co-present a joint paper on this subject?

73,
John, K8OCL

To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.comFrom> ps.comFrom: ke5crp1@verizon. <mailto:ke5crp1%40verizon.netDate> netDate: Sun, 25 May 2008 17:45:07 -0500Subject: RE: [ntms-hsmm] IEEE 802.15.4 & ZigBee

I've been researching ZigBee as part of a work project, and it is primarilya "home area network", slower than WiFi, longer range than Bluetooth, andapparently targeted at the home automation/integration market, and as suchis much simpler and cheaper to integrate into microcontroller based systemsthan either WiFi or Bluetooth.Possible amateur radio uses include short hop digital audio/command links,wireless replacement of rig control cables, and integration of sensingdevices such as GPS or weather station components into an overall ZigBeeconnected system, providing the sensor data seamlessly to multiple dataconsumers such as APRS, mapping software, and so

on. This would bebeneficial from the point of view that the more common "nest of snakes" (USBand Serial cables) could be replaced by a common wireless backbone, and thatthe data which currently is available typically to only a single consumerapplication could be distributed among multiple applications without specialprogramming, and without built in cooperation between the applicationswishing to consume the data.Most ZigBee radios implement a serial interface and AT style command setwhich allows full access to the features of ZigBee without complicatedhardware interfacing, a feature which makes ZigBee particularly suitable formicrocontroller based applications as most modern microcontrollers have oneor more on-chip serial UARTs. If the chip in question has only a single UARTand another is needed to talk to an external device such as a rig, GPS, orweather device, a "software" UART can be easily created from numerousexample implementations available on the web.What kinds of applications were y'all considering when you mentioned ZigBee??_____ From: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com [mailto:ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com] On BehalfOf John ChampaSent: Friday, May 23, 2008 3:49 PMTo: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.comSubject> ps.comSubject: RE: [ntms-hsmm] IEEE 802.15.4 & ZigBeeTry this one...Those links didn't make it through the reflector too well, did they (HI).Try this one:https://digi.<https://digi. <https://digi.webex.com/mw0305l/mywebex/default.do?nomenu=true&siteurl=digi&service=6&main_url=https%3A%2F%2Fdigi.webex.com%2Fec0600l%2Feventcenter%2Fevent%2FeventAction.do%3FtheAction%3Ddetail%26confViewID%3D195840585%26siteurl%3Ddigi%26%26%26Other> webex.com/mw0305l/mywebex/default.do?nomenu=true&siteurl=digi&service=6&main_url=https%3A%2F%2Fdigi.webex.com%2Fec0600l%2Feventcenter%2Fevent%2FeventAction.do%3FtheAction%3Ddetail%26confViewID%3D195840585%26siteurl%3Ddigi%26%26%26Other>webex.com/mw0305l/mywebex/default.do?nomenu=true&siteurl=digi&service=6&main_url=https%3A%2F%2Fdigi.webex.com%2Fec0600l%2Feventcenter%2Fevent%2FeventAction.do%3FtheAction%3Ddetail%26confViewID%3D195840585%26siteurl%3Ddigi%26%26%26Other wise just go to www.digi.comTo: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.comFrom> ps.comFrom:kilgore1317@ <mailto:kilgore1317%40sbcglobal.netDate> sbcglobal.netDate:Fri, 23 May 2008 15:02:57 -0500Subject: Re: [ntms-hsmm] IEEE 802.15.4 &ZigBeeWhat is the URL?DougJohn Champa wrote:> > >Possible interest....> >FreeWebinar: Introduction to ZigBee Mesh Networking>- Sponsored by DigiInternational ->Title: Introduction to ZigBee Mesh Networking>Date:Wednesday, May 28, 2008Time: 2:00 pm Central Daylight Time (GMT -05:00,Chicago) >Register to Attend>Webinar Summary: What are 802.15.4 and ZigBeeRand how do they compare to other wireless technologies? When would I want touse a simple 802.15.4 network versus deploying a self-forming, self-healingZigBee mesh network? What does a coordinator do and what happens if itfails? With the release of the ZigBee 2007 standard, can we expect realinteroperability? All of these questions will be answered in thisintroduction to 802.15.4 and ZigBee technologies webinar.Presented by JordanHusney, Lead Engineer, Digi International>Key TakeawaysAn introduction to802.15.4 point-to-multipoint and ZigBee mesh network formation, addressing,transmission styles and node types. Technical detail will be given on thenode joining process, network address discovery, and ZigBee mesh networkself-healing. Some time will also

be spent contrasting the ZigBee 2006 andZigBee 2007 feature sets. Key Product Focus>XBee^(TM) modules, XBeeadapters, ConnectPort^(TM) X Gateways>Intended AudienceThose seeking a basicto intermediate understanding of ZigBee technologies in technicaldetail.>>[Non-text portions of this message have beenremoved]>>>----------->>Yahoo! Groups Links>>>>>>[Non-text portions of this message have been removed] [Non-text portions of this message have been removed][Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

1257. Re: IEEE 802.15.4 & ZigBee

Yahoo group: DAWG-HSMM
Date: 2008-05-28 12:59:25 UTC
From: Craig
Topic: 1251 Message: 1257

John Champa k8ocl wrote:
>
> Are you going to the Plano Hamcom in June?
> Perhaps you would like to co-
> present a joint paper on this subject?
>
> 73,
> John, K8OCL
>

Speaking of presentations at the Plano Hamcom in two weeks... I would really enjoy it if someone would talk about any digital video links being set up and used either through modified 802.11 wireless routers or other means. We have quite a vast network of digital audio links built up between Echolink and IRLP but I have seen no discussion about digital video networks over the ham bands or linked to the internet.

What's the cheapest way to send digital video using the latest off the shelf hardware and software? I saw some video security camera systems at Fry's that seemed to claim that you can monitor a camera remotely over the internet. Can this be leveraged into Ham ATV use? I have a Cannon power shot A530 camera that has a USB port and it can record avi video as well as still shots. Is there any way I can use this as my digital video source and route the video to my local ATV repeater?

It would be great if an ATV repeater in one city could be digital video linked to other ATV repeaters in other parts of the country with a system similar to what echolink does for audio.

Let me know if you have any other ideas.

Craig
wd5bdx

1258. Are any hams sending digital video? How about a Hamcom presentation?

Yahoo group: DAWG-HSMM
Date: 2008-05-28 13:00:39 UTC
From: Craig
Topic: 1251 Message: 1258

John Champa k8ocl wrote:
>
> Are you going to the Plano Hamcom in June?
> Perhaps you would like to co-
> present a joint paper on this subject?
>
> 73,
> John, K8OCL
>

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It would be great if an ATV repeater in one city could be digital video linked to other ATV repeaters in other parts of the country with a system similar to what echolink does for audio.

Let me know if you have any other ideas.

Craig
wd5bdx

1259. Re: [Fwd: [Ham-80211] Ubiquiti SR9] 900Mhz

Yahoo group: DAWG-HSMM
Date: 2008-05-28 13:13:36 UTC
From: k5osx
Topic: 1010 Message: 1259

--- In ntms-hsmm@yahoogroups.com, Kilgore <kilgore1317@...> wrote:

> -------- Original Message --------
> Subject: [Ham-80211] Ubiquiti SR9
> Date: Mon, 5 Mar 2007 14:56:30 -0600
> From: Steve <kb9mwr@...>
> Reply-To: TAPR Mailing List for Ham Radio Use of 802.11
> <ham-80211@...>
> To: ham-80211 <ham-80211@...>
>
>
>
> Alright, perhaps I should have posted more about it.
>
> http://www.ubnt.com/sr9_faq.php4
> http://www.wlanparts.com/product/SR9
>
>

Is anyone in the NTX area using SR9 or XR9 radios?

I've read elsewhere that the 900MHz band would be a poor choice for
hsmm due to the potential presence of AM ATV and the
bandwidth of 802.11 modulation (covering much of the 900MHz band).

Is AM ATV used in the dfw and/or north texas area?

thanks,
robert

>
> _____
> ham-80211 mailing list
> ham-80211@...
> https://lists.tapr.org/cgi-bin/mailman/listinfo/ham-80211
>

1260. RE: [ntms-hsmm] Are any hams sending digital video? How about a Hamcom presentation?

Yahoo group: DAWG-HSMM
Date: 2008-05-28 15:55:06 UTC
From: John Champa
Topic: 1251 Message: 1260

Craig,

The RCARC in Richardson is working on a several mile long HSMM link between W5ROK and one of our member stations. Once we have the link up and running we have thought about using a webcam to send one-way ADV (Amateur Digital Video) over the link. We would probably use the NetMeeting software which comes with the MS Windows XP OS.

We will probably be on Channel 3 (pending the results and analysis of our area survey and link analysis) using 1W BDA with AGC into a long yagi to give an EIRP of ~30W.

Our SSID of w5rok-2 will use WEP with a 128-bit key for protection.

Hope that helps.

73,
John, K8OCL

To: ntms-hsmm@yahoogroups.comFrom: wd5bdx@...: Wed, 28 May 2008 13:00:39 +0000Subject: [ntms-hsmm] Are any hams sending digital video? How about a Hamcom presentation?

John Champa k8ocl wrote:> > Are you going to the Plano Hamcom in June? > Perhaps you would like to co-> present a joint paper on this subject?> > 73,> John, K8OCL> Speaking of presentations at the Plano Hamcom in two weeks... I would really enjoy it if someone would talk about any digital video links being set up and used either through modified 802.11 wireless routers or other means. We have quite a vast network of digital audio links built up between Echolink and IRLP but I have seen no discussion about digital video networks over the ham bands or linked to the internet. What's the cheapest way to send digital video using the latest off the shelf hardware and software? I saw some video security camera systems at Fry's that seemed to claim that you can monitor a camera remotely over the internet. Can this be leveraged into Ham ATV use?I have a Cannon power shot A530 camera that has a USB port and it can record avi video as well as still shots. Is there any way I can use this as my digital video source and route the video to my local ATV repeater?It would be great if an ATV repeater in one city could be digital video linked to other ATV repeaters in other parts of the country with a system similar to what echolink does for audio.Let me know if you have any other ideas.Craigwd5bdx

[Non-text portions of this message have been removed]

1261. Hamcom Presentation

Yahoo group: DAWG-HSMM
Date: 2008-05-28 19:17:37 UTC
From: J. Beadles
Topic: 1261 Message: 1261

Getting very close to too late for Hamcom presentations. I'm sending out the presenter detailed schedules today. After that, it gets extremely difficult to modify the schedule. Friday is open, Sat morning is completely full, but there are a few late Sat afternoon slots open. Sat evening is open, but they won't draw a lot of people.

1262. Re: [ntms-hsmm] Are any hams sending digital video? How about a Hamcom presentation?

Yahoo group: DAWG-HSMM
Date: 2008-05-28 20:17:46 UTC
From: Glenn Currie
Topic: 1251 Message: 1262

The Austin HSMM SIG uses the following Airlink101 IP-Video cameras:

<http://www.airlink101.com/products/aic250w.html>

They go on sale periodically at Fry's Electronics for about $50.00. The cameras are color, have no audio but are IP cameras. That is, they serve up live video in a web browser that supports Direct X or Java (IE or Firefox for example). The video stream is compressed JPEG.

We attach these cameras to our mesh nodes and if the node is in range, you can see the camera video stream. The mesh nodes have a special firmware load that uses Optimum Link State Routing (OLSR) to auto link the nodes when they are within RF range. We are currently using Linksys WRT54GL hardware, for the mesh nodes, but have a variety of wireless router boards we are working with to support more bands and provide more on board data storage.

Since you view the video with a web browser, it is easy to use. There are better cameras out there, but we have not found a better value. (You can spend way more then $50.00 on an nice lens alone).

We have used the cameras to provide 2 way ATV associated with VoIP , again linked with our mesh nodes.

We are setting up links in the Austin area to augment the emergency radio system we have installed in local hospitals and EOC ham shacks.

<http://www.your-website-in-24-hours.com/travishams/tcares.org/index.php?option=com_content&task=blogcategory&id=14&Itemid=26>

Three of the most active members of the Austin HSMM SIG are packing up and heading to west Texas for the Texas Star Party that runs for a week, starting next Sunday. Last year we did HSMM IP-Video links between the McDonald Observatory and the scenic lookout in the Davis Mountains State Park. This was a link of about 8 miles, and worked well. The time to extablish the link, once on site, was under 30 minutes - the time needed to set up the tripod, mast, antenna, camera and computer.

(We have done 10 mile links across downtown Austin on 30mw, simply using good high gain antennas, and well chosen station

sites.)

The Airlink camera could not be much easier to use. It serves up a web page with live video, itself - no computer is needed to frame grab and convert the camera data.

We have used the Airlink cameras mobile. They are assigned a static IP in our mesh network, so if you sit on the camera address, and occasionally do a web page refresh, when the mesh node supporting the camera is within RF range the video will start to flow. Loose the link, and the video freezes with the last frame received. Reestablish the link in a few seconds, and the video just starts to flow again, with no user intervention. If the link is lost for a few minutes, the browser times out, and you have to hit the refresh icon.

We are planning to do more testing of the mesh nodes and the IP-Video cameras at the TSP this year. I have 5 of the video cameras ready to go.

The TSP is held at the Prude Ranch, just outside Ft. Davis TX. Hams lay down an AC electrical grid to power laptops and and motor driven telescopes for ~ 800 amateur astronomers. The hams also bring in Internet access and distribute it via 802.11A backbone links to 802.11b/g links around the ranch. At any one time, over 200 laptops are active on the Internet.

<http://www.texasstarparty.org/>

Check this URL for a information regarding ham radio operations at TSP and the special events station W5TSP.

<http://www.texasstarparty.org/>

Note, this year TSP runs June 1 thru June 8th. Some of the TSP web page does not reflect the correct date.

The compressed JPEG video uses relatively little bandwidth and we have had 6 live video streams going at the same time and still had bandwidth to spare.

73's

-Glenn
KD5MFW

Craig <wd5bdx@...> wrote: John Champa k8ocl wrote:
>
> Are you going to the Plano Hamcom in June?
> Perhaps you would like to co-
> present a joint paper on this subject?
>
> 73,

> John, K8OCL
>

Speaking of presentations at the Plano Hamcom in two weeks... I would really enjoy it if someone would talk about any digital video links being set up and used either through modified 802.11 wireless routers or other means. We have quite a vast network of digital audio links built up between Echolink and IRLP but I have seen no discussion about digital video networks over the ham bands or linked to the internet.

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It would be great if an ATV repeater in one city could be digital video linked to other ATV repeaters in other parts of the country with a system similar to what echolink does for audio.

Let me know if you have any other ideas.

Craig
wd5bdx

[Non-text portions of this message have been removed]

1263. What mapping software can I use?

Yahoo group: DAWG-HSMM
Date: 2008-05-28 20:38:42 UTC
From: bob_deep
Topic: 1263 Message: 1263

All,

I'm in the process of setting up an HSMM link between my home QTH and my club's shack which is about 3.5 miles away. I'm pretty sure will work with the directional antennas we have because it is a direct line of sight (verified by my binoculars from my roof.)

Last weekend I drove around the link path using a laptop and an external antenna on the truck running NetStumbler connected to my GPS. I have a data file that contains the coordinates along with the standard stuff that NetStumbler collects.

My question is how can I get the data from NetStumbler into some kind of map display. I'm sure somebody has done that before...

-= bob =-
KC4UAI

1264. Re: [ntms-hsmm] What mapping software can I use?

Yahoo group: DAWG-HSMM
Date: 2008-05-29 04:26:36 UTC
From: Robert Ellis
Topic: 1263 Message: 1264

On May 28, 2008, at 3:38 PM, bob_deep wrote:
>
> My question is how can I get the data from NetStumbler into some kind
> of map display. I'm sure somebody has done that before...

If you have cygwin on your Windows machine, perhaps gpsmap, shipped with
kismet, would suffice. Documentation on gpsmap can be found here:
http://www.kismetwireless.net/documentation.shtml

I haven't used this software, but probably will have some experience in
a week or so. ;)

robert

>
>
> -= bob =-
> KC4UAI
>

1265. Re: [ntms-hsmm] What mapping software can I use?

Yahoo group: DAWG-HSMM
Date: 2008-05-29 04:47:42 UTC
From: Glenn Currie
Topic: 1263 Message: 1265

I have used
SAStumbler
<http://home.comcast.net/~jay.deboer/wardriving/SAStumbler.htm>
to convert NetStumbler files into an overlay file for
Delorme Street Atlas.

-Glenn
KD5MFW

bob_deep <bob_brock@...> wrote: All,

I'm in the process of setting up an HSMM link between my home QTH and
my club's shack which is about 3.5 miles away. I'm pretty sure will
work with the directional antennas we have because it is a direct line
of sight (verified by my binoculars from my roof.)

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standard stuff that NetStumbler collects.

My question is how can I get the data from NetStumbler into some kind
of map display. I'm sure somebody has done that before...

-= bob =-
KC4UAI

[Non-text portions of this message have been removed]

1266. Re: [ntms-hsmm] What mapping software can I use?

Yahoo group: DAWG-HSMM
Date: 2008-05-29 04:58:00 UTC
From: Kilgore
Topic: 1263 Message: 1266

Try Google Maps
http://maps.google.com/help/maps/mymaps/create.html

Doug KD5OUG

bob_deep wrote:

>All,
>
>I'm in the process of setting up an HSMM link between my home QTH and
>my club's shack which is about 3.5 miles away. I'm pretty sure will
>work with the directional antennas we have because it is a direct line
>of sight (verified by my binoculars from my roof.)
>
>Last weekend I drove around the link path using a laptop and an
>external antenna on the truck running NetStumbler connected to my GPS.
> I have a data file that contains the coordinates along with the
>standard stuff that NetStumbler collects.
>
>My question is how can I get the data from NetStumbler into some kind
>of map display. I'm sure somebody has done that before...
>
>-= bob =-
> KC4UAI
>
>
>

1267. Re: Are any hams sending digital video? - Airlink101 IP-Video camera

Yahoo group: DAWG-HSMM
Date: 2008-05-29 12:12:09 UTC
From: Craig
Topic: 1251 Message: 1267

Thanks for the info, Glenn! This is the lowest cost and most simple off the shelf digital solution I've seen so far. It looks like the regular price at Fry's is $99. I'm thinking of getting one now and then when they go on sale picking up a few more. It would be outstanding if we could get the creators of Echolink to add these cameras to their server so one could log in and connect to anyone serving video around the world just as is done with voice today.

Craig
wd5bdx
Houston, Texas

Glenn Currie <kd5mfw_7@...> wrote:
>
> The Austin HSMM SIG uses the following Airlink101 IP-Video
> cameras:
>
> <http://www.airlink101.com/products/aic250w.html>
>
> They go on sale periodically at Fry's Electronics for about
> $50.00. The cameras are color, have no audio but are IP cameras.
> That is, they serve up live video in a web browser that supports
> Direct X or Java (IE or Firefox for example). The video stream
> is compressed JPEG.
>
> Since you view the video with a web browser, it is easy to use.
>
> The Airlink camera could not be much easier to use. It serves
> up a web page with live video, itself - no computer is needed to
> frame grab and convert the camera data.
>
> We have used the Airlink cameras mobile. They are assigned
> a static IP in our mesh network, so if you sit on the camera
> address, and occasionally do a web page refresh, when the
> mesh node supporting the camera is within RF range the
> video will start to flow. Loose the link, and the video freezes
> with the last frame received. Reestablish the link in a few
> seconds, and the video just starts to flow again, with no user
> intervention. If the link is lost for a few minutes, the browser
> times out, and you have to hit the refresh icon.
>
> The compressed JPEG video uses relatively little bandwidth
> and we have had 6 live video streams going at the same time
> and still had bandwidth to spare.
>

> 73's
>
> -Glenn
> KD5MFW
>

1268. Using Skype Video for Presentation

Yahoo group: DAWG-HSMM
Date: 2008-05-30 05:13:58 UTC
From: Kilgore
Topic: 1268 Message: 1268

At the June 9 Richardson Wireless Klub meeting, we will be honoring Austin Wilmot KD5QKS who is the recipient of the ARRL 2008 Goldfarb Memorial Scholarship. This is the most prestigious scholarship given away each year to only one ham. Austin got his license in 2001 while attending an after-school ham class taught by members of RWK.

I would like to set up a live, 2 way audio-video link with ARRL Foundation personnel using Skype over the internet. I have a digital web-cam built into my laptop that will work from my direction.

Who has a web-cam that can work on their computer and a Skype account? I would like to test out this process soon.

Doug Kilgore KD5OUG
kd5oug@...
Ph 972-231-8539
Skype ID: kd5oug-laptop1

[Non-text portions of this message have been removed]

1269. Re: Are any hams sending digital video? - Airlink101 IP-Video camera

Yahoo group: DAWG-HSMM
Date: 2008-05-30 12:55:40 UTC
From: Craig
Topic: 1251 Message: 1269

Glenn, I went over to Fry's yesterday but they only had the 500W for $119. Are there any compatibility issues between the 250W and the 500W?

Also, has anyone tried disconnecting the camera from the Airlink101 devices and feeding it instead with external video from an ATV repeater. It would be great if we could figure out a way to see ATV repeater video over the web with a simple browser.

Craig
wd5bdx

> Glenn Currie <kd5mfw_7@> wrote:
> >
> > The Austin HSMM SIG uses the following Airlink101 IP-Video
> > cameras:
> >
> > <http://www.airlink101.com/products/aic250w.html>
> >
> > They go on sale periodically at Fry's Electronics for about
> > $50.00. The cameras are color, have no audio but are IP cameras.
> > That is, they serve up live video in a web browser that supports
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> > is compressed JPEG.
> >
> > The Airlink camera could not be much easier to use. It serves
> > up a web page with live video, itself - no computer is needed to
> > frame grab and convert the camera data.
> >
> > We have used the Airlink cameras mobile. They are assigned
> > a static IP in our mesh network, so if you sit on the camera
> > address, and occasionally do a web page refresh, when the
> > mesh node supporting the camera is within RF range the
> > video will start to flow. Loose the link, and the video freezes
> > with the last frame received. Reestablish the link in a few
> > seconds, and the video just starts to flow again, with no user
> > intervention. If the link is lost for a few minutes, the browser
> > times out, and you have to hit the refresh icon.
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> > The compressed JPEG video uses relatively little bandwidth
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> >
> > 73's
> >
> > -Glenn

> > KD5MFW
> >
>

1270. Re: [ntms-hsmm] Re: Are any hams sending digital video? - Airlink101 IP-Video camera

Yahoo group: DAWG-HSMM
Date: 2008-05-30 18:37:24 UTC
From: Glenn Currie
Topic: 1251 Message: 1270

Craig,

I have not worked with the 500W. I will have to look it up.

Also, I have not tried to open up the camera and tried to feed in video from an outside source. I don't know how they are doing the video sampling, or if the video ever exists in NTSC format anywhere in the camera.

Anyone that opens one up and can figure out how the camera is connected to the rest of the system to produce the JPEG output, let us know.

As for being compatible, there are a variety of IP-Cameras on the market. The higher quality ones have higher resolution, and put more data onto the network. All of the IP cameras I have worked with could be displayed on a web browser. Some have additional software that can do things like blow up the image to fill the entire computer screen etc. So the cameras will have differences, but all IP video cameras are designed to send video over a network link so they don't all have to use the exact same frame rate and resolution. The computer displaying them must be capable of decoding and displaying the data.

I am sending this message using an old 200MHz Toshiba laptop. It works well in the field as it seems to be much tougher than some of the newer equipment I have. Anyway, it can only display one browser showing video. The limitation is the bandwidth of the computer. I can open several browser windows, and I can get video in each one, but the computer cannot manage the full frame rate on each video dispaly. A faster computer has no problems keeping up with the frame rate on multiple camera displays. The video degrades gracefully though. Each frame is clear, it just drops frames if it gets too far behind, so the effective frame rate is lower.

We can get multiple of the cheap AirLink cameras on one wireless link because they are relatively low res and thus sending less data than a hi res camera.

There is lots to tinker with and it is fun for technical types. I am learning more all the time. Luckily you don't have to understand everything to get started. With a few of the basics you can begin to experiment and dig as deep into the technical issue as you please. With devices like the little AirLink cameras, the cost of entry to digital video has come way down. I would encourage others to get on the air and experiment with the gear. I am sure there are many interesting ways the equipment can be used. If you set up the radio links using Part-97 rules, you have digital ATV, right out of the box!

-Glenn

Craig <wd5bdx@...> wrote:

Glenn, I went over to Fry's yesterday but they only had the 500W for $119. Are there any compatibility issues between the 250W and the 500W?

Also, has anyone tried disconnecting the camera from the Airlink101 devices and feeding it instead with external video from an ATV repeater. It would be great if we could figure out a way to see ATV repeater video over the web with a simple browser.

Craig
wd5bdx

> Glenn Currie <kd5mfw_7@> wrote:
> >
> > The Austin HSMM SIG uses the following Airlink101 IP-Video
> > cameras:
> >
> > <http://www.airlink101.com/products/aic250w.html>
> >
> > They go on sale periodically at Fry's Electronics for about
> > $50.00. The cameras are color, have no audio but are IP cameras.
> > That is, they serve up live video in a web browser that supports
> > Direct X or Java (IE or Firefox for example). The video stream
> > is compressed JPEG.
> >
> > The Airlink camera could not be much easier to use. It serves
> > up a web page with live video, itself - no computer is needed to
> > frame grab and convert the camera data.
> >
> > We have used the Airlink cameras mobile. They are assigned
> > a static IP in our mesh network, so if you sit on the camera
> > address, and occasionally do a web page refresh, when the
> > mesh node supporting the camera is within RF range the
> > video will start to flow. Loose the link, and the video freezes
> > with the last frame received. Reestablish the link in a few
> > seconds, and the video just starts to flow again, with no user
> > intervention. If the link is lost for a few minutes, the browser
> > times out, and you have to hit the refresh icon.
> >
> > The compressed JPEG video uses relatively little bandwidth
> > and we have had 6 live video streams going at the same time
> > and still had bandwidth to spare.
> >
> > 73's
> >
> > -Glenn
> > KD5MFW
> >
>

[Non-text portions of this message have been removed]

1271. Re: Are any hams sending digital video? How about a Hamcom presentation?

Yahoo group: DAWG-HSMM
Date: 2008-06-01 04:26:50 UTC
From: Steve
Topic: 1251 Message: 1271

I have used the D-Link DCS-(G)900 IP camera over 802.11. I chose that camera because there is Linux software for it, in addition to it's own built in web-server/viewer.
http://panteltje.com/panteltje/mcamip/

I successfully used this to monitor one of the our club sites that we have soda machine at. We had some vandalism going on at that site, so I put the D-Link camera up and would watch it from home over with wireless network.

>
> Speaking of presentations at the Plano Hamcom in two weeks... I
> would really enjoy it if someone would talk about any digital video
> links being set up and used either through modified 802.11 wireless
> routers or other means. We have quite a vast network of digital
> audio links built up between Echolink and IRLP but I have seen no
> discussion about digital video networks over the ham bands or linked
> to the internet.
>
> What's the cheapest way to send digital video using the latest off
> the shelf hardware and software? I saw some video security camera
> systems at Fry's that seemed to claim that you can monitor a camera
> remotely over the internet. Can this be leveraged into Ham ATV use?
> I have a Cannon power shot A530 camera that has a USB port and it can
> record avi video as well as still shots. Is there any way I can use
> this as my digital video source and route the video to my local ATV
> repeater?
>
> It would be great if an ATV repeater in one city could be digital
> video linked to other ATV repeaters in other parts of the country
> with a system similar to what echolink does for audio.
>
> Let me know if you have any other ideas.
>
> Craig
> wd5bdx
>

1272. RE: [ntms-hsmm] Re: Are any hams sending digital video? How about a Hamcom presentation?

Yahoo group: DAWG-HSMM
Date: 2008-06-02 01:30:09 UTC
From: John Barrett
Topic: 1251 Message: 1272

I was using an analog PTZ camera with the Osprey video capture and the VLC streaming server to deliver streaming video over WiFi at the Christmas parade. The only real problem is the processing overhead to compress the stream - 2ghz or better required to compress and stream from a single computer. (I didn't have quite that much and ended up having to use 2 machines).. since the Osprey is NTSC input, you can use just about any camera.

The other problem was line of site to the far end :-) but the video portion worked great :-)

Is anyone really doing ATV any more ?? I asked around a few months back and the impression I got is that ATV has pretty much died.

Since ATV wants a standard NTSC input, the only way you are going to link a digital stream to an ATV transmitter is by using a video card with TV out, probably as a secondary display on the computer connected to the net. The Osprey card or any other supported by the VLC streaming encoder would do fine for encoding the video - preferably one that has on board compression to reduce the work load on the host computer.

If you wanted to do a network like Echolink/IRLP, all that is really needed is a registration web server and some simple software that will keep the registration server notified of active video sources running on the machine sourcing the video stream. At the "receiving" end, viewers could pick up a stream by installing the VLC player and clicking a link on the website to access the stream. Setting up the player to display on a TV-out card would allow the video to be routed to an ATV transmitter.

Using anything that doesn't put out standard NTSC presents a problem delivering the video to an ATV transmitter.. most web cam type video devices have low resolution and don't look all that good when blown up to full screen even at 640x480 TV resolution. However, if video quality isn't that much of an issue, then if there is a way to capture to a stream from your camera, rather than to a file, it can be made to work. Also note that many web cam type devices do not output at full 30 frames per second, but that doesn't matter much once the stream is fed to a TV-out card.

VLC player and server are available free for most any platform out there - Winblows, McCrap, Limpux :-)

Hope that gives you a few ideas :-)

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Steve
Sent: Saturday, May 31, 2008 11:27 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Are any hams sending digital video? How about a Hamcom presentation?

I have used the D-Link DCS-(G)900 IP camera over 802.11. I chose that camera because there is Linux software for it, in addition to it's own built in web-server/viewer.
http://panteltje. <http://panteltje.com/panteltje/mcamip/>
com/panteltje/mcamip/

I successfully used this to monitor one of the our club sites that we have soda machine at. We had some vandalism going on at that site, so I put the D-Link camera up and would watch it from home over with wireless network.

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> systems at Fry's that seemed to claim that you can monitor a camera
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> I have a Cannon power shot A530 camera that has a USB port and it can
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> this as my digital video source and route the video to my local ATV
> repeater?
>
> It would be great if an ATV repeater in one city could be digital
> video linked to other ATV repeaters in other parts of the country
> with a system similar to what echolink does for audio.
>
> Let me know if you have any other ideas.
>
> Craig
> wd5bdx
>

[Non-text portions of this message have been removed]

1273. Re: [ntms-hsmm] Re: Are any hams sending digital video? How about a Hamcom presentation?

Yahoo group: DAWG-HSMM
Date: 2008-06-02 01:58:36 UTC
From: KD5LWU Johnny
Topic: 1251 Message: 1273

There are lot's of ATV activity still going on I have done a cut and paste of a ATV newsletter of a group of folks that are streaming their ATV repeaters to the Internet. At my RFhamcams Yahoo group we talk a lot about this issue....here is the news letter.....

ATV Newsletter
*June 3, 2008 *Circulation 1100+
Vol. 1 No. 43

In this Edition:
* World News this Week
* BATC Press Release *Exciting News*
* ATV Contacts Wanted
* Another New Camstream K8DMR
* San Bernardino Microwave Society Meeting
* *Are Camstreams BAD? *
* World Wide ATV Open House
* Digital-ATV
* Buy-Sell-Trade
* ATV Guide
* ATV Website Guide
* Internet Viewers
* This weeks Joke
* Local News
* Repeater Reports
** Oat Mtn. lost all audio.*
* Repairs Needed
* Letters to the Editor

World News this Week

BATC Press Release
"British Amateur Television Club"
I received this email and it is exciting news for ATV.

Bryon
The Streamer hardware should get installed tonight,
I hope GB3BH soon gets linked in and then other follow
Press release below cleared to use
Trevor

www.batc.tv <http://www.batc.tv/> is the latest venture by the BATC into Television
streaming. The site will bring streamed ATV to the internet and allow cross repeater working from its multi screen display. The site will also

carry a library of ATV programmes and be a port for other ATV events
that will be streamed from around the world.

Some of you may have already seen Camstream and other repeater
streaming, how will this site differ? The software has been written
To allow multi user display, so that more than one repeater can be
viewed at the same time allowing CQ ATV to be called on one repeater and
others monitored for a duplex QSO. In the past using single repeater
monitoring this has been possible but only a single repeater could be
monitored and delay was a major problem.

www.batc.tv <http://www.batc.tv/> will be located in the Telehouse,
Docklands data centre
here in the UK and connected to a major internet pipe to minimise
delays. The streamer will use flash media so the picture quality will be
the very best that modern technology can provide at the present time.

This is an expensive venture and although no charge will be made to ATV
repeater groups for streaming we are looking for other users and
sponsors to help make this site a place to visit. Ventures from other
users are not restricted to ATV or even ham radio. If you would like to
start your own streaming service then please contact us - we have the
necessary space available.

If you are a company and would like to help support this project, then
for a small donation we can display and hyper link your logo from our
front page.

If you would like to stream your repeater or have a live event coming up
you would like to stream or if you have library ATV material suitable
for this site, please contact _info@..._ <mailto:info@...>
****
It is great to see that people are thinking BIG when it comes to ATV and
not small.
N6IFU
****
ATV Contacts Wanted
I received this email from Ian this week and it looks like ATV is
getting bigger already.

/hi all/
/we are a small 2.4ghz active atv group in south yorkshire/
/we transmit live atv from hams in their shack - car - bicycle -
wheelchair or just walking/
/we are looking for skeds via camstreams between 1400-2200 utc/
/please email me if you would like an atv qso/
//
/73 Ian G3ZHI/
//
/_g3zhi@..._ <mailto:g3zhi@...> /
//
/_http://www.qsl.net/g3zhi_// - many ham radio links/

//
/_http://www.ukirlp.co.uk_/ <http://www.ukirlp.co.uk/>
//
/G4NJI IRLP 5200 Echolink 135909
Rotherham simplex 145.2875mhz /
//
/Skype g3zhiian
VoiP 642109/
//
/Mobile: 0798 473 2058
**********/
Ian helped me get the ATV Newsletter off the ground in the UK and I consider him a good friend. N6IFU
****
Another New Camstream
I received an email from Ron, K8DMR and he wanted me to let you all know that he has establish yet another Canstream for ATV. His URL is _http://k8dmr.camstreams.com_ <http://k8dmr.camstreams.com/>
****
San Bernardino Microwave Society Meeting
The SBMS meeting is this coming Thursday June the 5th.
*The "Tech Talk" this month is: *
"Digital Signal Processing"
Presented By Dr. Prentiss Robinson
SBMS Meetings are always worth watching.
It starts at 7:00 PM PT and runs to 9:00 PM

You can watch it via the *AC6RB Camstream*
go to _www.ac6rb.com_ <http://www.ac6rb.com/> and click on option #1 or #2

I will be logging all Internet Viewers and checking them in to the meeting via ATV

I also saw W6KVC, Gary testing his ATV equipment this week. He has some new equipment for production and broadcast of the SBMS meeting. If you haven't watched the SBMS meeting it's a great example of excellent production quality due to Gary's hard work. And the SBMS should consider it's meetings and Tech Talk be added to the BATC video Library.

Are Camstreams BAD?

I have tried to think of any negative that might be associated with the use of Camstreams or Ustreams in conjunction with with ATV but I have never been able to think of one reason until I heard a Ham on my local network express his reason.

He was telling another Ham that he thought the Camstream on our network was great for our Net but he thought it shouldn't be on 24/7. He went on to say it makes him feel like people were looking in his windows by having it on 24/7 and it should be turned off.

I thought about his objection and it became clear to me that when you are on HF, anyone with a short wave radio can listen in. And on UHF and VHF anyone with a scanner can listen in. So what is he afraid of people seeing and hearing?

If he is operating his ATV Station in accordance with FCC Laws why is he concerned about someone watching the camstream. It makes me feel that he has something to hide.

I don't think he knows how silly his objection sounds and if he thinks people are looking in his windows he shouldn't turn on his ATV transmitter and no one will be able in look in his windows.

I think this Ham's comments shouts out a good reason for having a Camstream on your ATV repeater. If someone is breaking the law we all should take steps to keep ATV above reproach by policing it ourselves.

Last week the President of ATN-CA Don KE6BXT put a letter in the newsletter asking for anyone seeing objectionable language or images on the ATN-CA repeaters should contact him at _donhill@..._ <mailto:donhill@...> *Good for you Don! *I am sure Don and the club officers will keep your identity confidential.
/_____/
World Wide ATV Open House
Octorber 25, 2008
_____
_____
*Digital-ATV
*
No new news!
_____
*Buy-Sell-Trade *
_____
For Sale:
Heatth Packit model HK 232.Fully functional, includes original manual. $ Make offer.
Contact KA6JJH. _oscar_@..._ <mailto:oscar_@...>
****
For Sale:
I have a couple new pf-0031 880-925 6 watt rf power module. I used them with my 900mhz transverter and atv brick.
73's n0mnb
nomnb@... <mailto:nomnb@...>
****
For Sale:
Amateur Television Repeater Controllers
ATVC-4 Plus is Intuitive Circuit's second generation Amateur Television repeater controller.
Some of the many features that the ATVC-4 includes are:
** Five Video Input Sources*
** Four Mixable Audio Input Sources*
** Non-volatile Storage *

** DTMF Control*
** Beacon Mode*
** Robust CW Feedback*
** Password Protected*
** And Many More Features*
For example a major new feature is four individual sync detection
circuits allowing for true priority based ATV receiver switching.
Only $349.00
Contact: Intuitive Circuits, LLC 3928 Wardlow Ct., Troy, MI - (248) 588-4400
To go right to the
ATVC-4 _http://www.icircuits.com/prod_atv_main.html_
To go to the main page _http://www.icircuits.com_
<http://www.icircuits.com/>
****
For Sale
ATV Equipment for Sale
1 P.C. Electronics ATV Repeater Receiver ATVR-4 (434.00 and 439.25)
[$149.00]
1 P.C. Electronics ATV Repeater Receiver ATVR-4 (439.25 LSB) [$149.00]
1 P.C. Electronics ATV Repeater Transmitter RTX-23 (1253.25) [$164.00]
1 P.C. Electronics ATV Crystal Downconverter TVCX-23 N (1253.25) [$55.00]
1 P.C. Electronics ATV Crystal Downconverter TVCX-23 BNC (1253.25) [$55.00]
1 Down East Microwave 23cm weatherproof LNA 23LNA [$60.00]
1 Elktronics board in an enclousre [$make offer]
2 Superscope digital quad splitter b/w rackmount VMS550mkll [$make offer]
Filters
2 International Crystal Manufacturing (ICM) FL407 434.000 VSB Filter
(tuned for 439.25 LSB) [$make offer]
2 Digital Communications, Inc. (DCI) 440-450 MHz Bandpass Filter
DCI-445-10C 4 pole [$95.00]
2 Digital Communications, Inc. (DCI) 2 Meter Bandpass Filter DCI-146-4H
4 pole [$85.00]
Antennas
1 Comet GP-20 1.2 GHz 14.9 dbi omni antenna (new) [$make offer]
1 Diamond U-300 440/1200 8.6 db/ 13.2 db omni antenna [$make offer]
Radios
Kenwood TM-441A [$175.00]
Miscellaneous
MFJ TNC MFJ-1274 [$make offer]
Kantronics Packet Communicator 9612 Plus [$make offer]
Mountain View Communications Technology GOES Weather Satellite
Downconverter 1691-A [$make offer]
Hamtronics NOAA Weather Satellite Receiver [$make offer]
MultiFAX Weather Satellite PC card [$make offer]
Kansas City Tracker PC card [$make offer]
- Chris, N8UDK
Contact: _chris@..._ <mailto:chris@...>
****
For Sale
The following is a list of items that I have. It is all "C" band equipment.

1. Polarizer (Chaparal Feed Horn)
2. LNA (it appears to be new) No Temp marked
3. Echostar Satellite receilver, Mod. JR200
4. Amplica Satellilte receiver, Mod. aCSR 1000
Contact Spencer, N6IWY at _n6iwy@..._ <mailto:n6iwy@...>
****
Looking For:
I am looking for a *military "Sound-Powered" handset.* Anyone that has
one for sale, please
contact Spencer, N6IWY at < _n6iwy@..._
<mailto:n6iwy@...> >.
****
Anyone looking to buy, sell or trade ATV Equipment are welcomed to send
your ad(s) for publication to:
atv-newsletter@... <mailto:atv-newsletter@...>
_____
*ATV Guide
*Scheduled Program Guide for ATV
Monday:
SCART Net (GB3IV)
http://g7jtt.camstreams.com <http://g7jtt.camstreams.com/>
Tuesday:
ATCO ATV Net
Every Tuesday at 6:00 PM PT/9:00 PM ET
* _http://wb8lga.camstreams.com_ <http://wb8lga.camstreams.com/> *
W7TED Repeaters Net Night
Every Tuesday at 8:00 PM PT/11:00 PM ET
http://w7ted.camstreams.com <http://w7ted.camstreams.com/>
Torbay Amateur Television & Microwave Group
Group Activity Night
Every Tuesday at 2000 to 2200 UTC/1:00 PM PT/4:00 PM ET
or _www.gb3tb.dyndns.tv_ <http://www.gb3tb.dyndns.tv/>
http://www.ustream.tv/channel/gb3tb-23cms-atv-repeater
ATN-CA Net
Every Tuesday at 8:00 PM PT/11:00 PM ET
www.ac6rb.com <http://www.ac6rb.com/> then click on option #1 or #2
Backup Streaming Video Address for the Net
http://ustream.tv/channel/n6gkb via Snow Peak Repeater
Wednesday:
Chat Night, GB3ZZ
Every Wednesday at 2100 UTC/1:00 PM PT/4:00 PM ET
http://gb3zz.camstreams.com <http://gb3zz.camstreams.com/>
CATS Net
Every Wednesday at 6:00 PM PT/9:00 PM ET
http://kb3lnn.camstreams.com <http://kb3lnn.camstreams.com/>
Thursday:
Torbay Amateur Television & Microwave Group
Group Activity Night
Every Thursday at 2000 to 2200 UTC/1:00 PM PT/4:00 PM ET
http://www.ustream.tv/channel/gb3tb-23cms-atv-repeater

ot _www.gb3tb.dyndns.tv_ <http://www.gb3tb.dyndns.tv/>
*San Bernardino Microwave Society Meeting
Topic of Tech Talk: "Digital Signal Processing"*
*Presented by Dr. Prentiss Robinson
Thursday June 5th from 7:00 to 9:00 PM PT
10:00 to 12:00 Midnight ET
* _www.ac6rb.com_ <http://www.ac6rb.com/> then click on option #1 or #2
BRATS Net
Every Thursday at 6:00 PM PT/9:00 PM ET
http://kb3lnn.camstreams.com <http://kb3lnn.camstreams.com/>
Friday:
GB3GG, Grimsby Amateur Television Group Net
Every Friday at 2100 ZULU
2:00 PM PT/5:00 PM ET
http://www.ustream.tv/channel/gb3gg
Sunday:
Coffee Klatch
Every Sunday at 9:00 AM PT/12:00 Noon ET
www.ac6rb.com <http://www.ac6rb.com/> then click on option #1 or #2
International ATV Net
Every Sunday at 12:00 Noon PT/3:00 PM ET
http://kb3lnn.camstreams.com <http://kb3lnn.camstreams.com/>
Torbay Amateur Television & Microwave Group
Group Activity Night
Every Sunday at 2000 to 2200 UTC/1:00 PM PT/4:00 PM ET
http://www.ustream.tv/channel/gb3tb-23cms-atv-repeater
or _www.gb3tb.dyndns.tv_ <http://www.gb3tb.dyndns.tv/>
MATS Net
Every Sunday at 5:00 PM PT/8:00 PM ET
http://kb3lnn.camstreams.com <http://kb3lnn.camstreams.com/>

ATV DXing
KA9UVY _http://ka9uvy.camstreams.com_ <http://ka9uvy.camstreams.com/>
KA9UVY, Bob is active mostly morning during weekdays
And all hours weekends.

Hepburn tropo forecast page:
http://www.dxinfocenter.com/tropo.html

ATV DXers post their CQ's and Reports to the ATV logger page:
http://dxworld.com/atvlog.html

Hawaiian Beacons for the West Coast provided by. "KH6HME"
144.170 MHz
432.075 MHz
1296.34 MHz

Other Streaming ATV Videos
K8DMR's Camstream
*_http://k8dmr.camstreams.com_ <http://k8dmr.camstreams.com/> *
**

WB8LGA's Camstream
Links to other camstreams and Google ATV Maps
And location to view the ATCO ATV Net
http://wb8lga.camstreams.com <http://wb8lga.camstreams.com/>

Severnside Television Group
_http://www.camsecure.co.uk/Camsecure_Radio_Amateurs.html_

N6GKB's Tower Cam in Yucca Valley, CA and back-up for the AC6RB
streaming videos for the ATN.
http://ustream.tv/channel/n6gkb

If you have a scheduled Net or Event on your Streaming Video that you
would like listed in the "ATV Guide" please send your information to:
atv-newsletter@... <mailto:atv-newsletter@...>
_____
*ATV WEBSITE GUIDE
*_____
Acres Electronics, ZL4TAO
ATV Gear
www.acreselectronics.co.nz <http://www.acreselectronics.co.nz/>
Amateur Radio Victoria
www.users.amateurradio.com.au <http://www.users.amateurradio.com.au/>
Amateur Radio Victoria/VK3FCE
www.amateurradio.com.au/vk3fce <http://www.amateurradio.com.au/vk3fce>
Associated Radio Amateurs of Long Beach, Inc.
Club Station located on "Queen Mary" W6RO
http://www.aralb.org <http://www.aralb.org/>
ATCO Newsletter
www.atco.tv <http://www.atco.tv/>
Amateur Television Network
www.atn-tv.org <http://www.atn-tv.org/>
Amateur Television Quarterly
http://www.hampubs.com <http://www.hampubs.com/>
ATV Newsletter (Back Issues Only)
http://www.qsl.net/g3zhi/atvnews.htm
Baltimore Radio Amateur Television Society (BRATS)
http://www.bratsatv.org <http://www.bratsatv.org/>
British Amateur Television Club Forums
http://www.g1fef.co.uk/forums
British Amateur Television Club Website (BATC)
http://batc.org.uk <http://batc.org.uk/>
Chesapeake Amateur Television Society (CATS)
http://mysite.verizon/vzev3ql6/id.html
CQ-TV Magazine, view back issues and the place to subscribe
www.cq-tv.com <http://www.cq-tv.com/>
DATV/Digital Amateur Television Primer, G7LWT
*And another location you can download bask issues
of the "ATV Newsletter"
* _www.g7lwt.com_ <http://www.g7lwt.com/>
Dutch Digital Amateur Television Site

http://d-atv.com <http://d-atv.com/>
G3ZHI
Many Ham Radio Links
http://www.qsl.net/g3zhi
GB3BH
http://gb3bh.com <http://gb3bh.com/>
GB3KM
http://myspace.freeserve.com <http://myspace.freeserve.com/>
GW6BWX's
Amateur Television Electronics Projects ATV/DATV
http://www.atv-projects.com/index.html
Hamoholics, 2E0GYZ
www.2e0gyz.ning.com <http://www.2e0gyz.ning.com/>
Intuitive Circuits, LLC
ATV Repeater Controllers _http://www.icircuits.com/prod_atv_main.html_
On-Screen ID Overlay and home page _http://www.icircuits.com_
<http://www.icircuits.com/>
K6BEN-ATV
http://www.batnet.com/~mfwright.mfwright/k6ben.html
<http://www.batnet.com/%7Emfwright.mfwright/k6ben.html>
Las Vegas Radio Amateur Club
http://www.larac.org <http://www.larac.org/> and _www.hxo.com_
<http://www.hxo.com/>
Microwave Experimenters Television System (METS)
http://qsl.net/kc6ccc/
Mini-kits Hi-Tech RF Kits and Components
http://www.minikits.com.au <http://www.minikits.com.au/>
MNFAT Minnesota Group/KB0OZN
www.Mnfat.net <http://www.mnfat.net/>
N6HOG's Weather Web
http://n6hog.com <http://n6hog.com/>
San Bernardino Microwave Society (SBMS)
http://www.ham-radio.com/sbms
Severnside Television Group
_http://www.camsecure.co.uk/Camsecure_Radio_Amateurs.html_
Southgate Amateur Radio Club
www.southgatearc.org <http://www.southgatearc.org/>
WA6NUT's page
HF with FFT-TV
http://www.hamsdr.com/personaldirectory.aspx?did=1139
World Wide ATV Open House
October 25, 2008 For more info or to list your
Repeater or Individul webstream.
* **_world-wide-atv-repeater-network@..._*
<mailto:world-wide-atv-repeater-network@...>*
*
If you have an ATV Streaming Video or ATV website that you would like to
have listed in the ATV Guide please send your info to:
atv-newsletter@... <mailto:atv-newsletter@...>
_____

*This weeks Joke: *
*Two Cannibals are are eating a clown. One says to the other and says:
"Does this taste funny to you?"*
From Art KC6UQH
Got a joke? send it to _atv-newsletter@..._
<mailto:atv-newsletter@...>
_____
*Internet Viewers
*
Internet Check-ins/Viewers during the Net this week:

K3ATI Jim

W7TED Ted

AF6AW Mike

N3IUO Randy

*AE6QU * Ron

KD6WKS Marty

KB6CJZ Robbie

W6HUY Wayne

WI0N Ross

*Thank you all for checking in and I hope to see you again next week. *
**
All Internet Viewers are welcomed.

You are invited to check-in to the weekly ATN-CA Net every Tuesday at
8:00 PM PT. I am net control and I log on to the _www.ac6rb.com_
<http://www.ac6rb.com/> website about an hour before the net and chat
with viewers. And I log in everyone so make a point to watch next Tuesday.

AC6RB offers Camstream and Ustream streaming video from his website
www.ac6rb.com <http://www.ac6rb.com/>

In the event that there is a problem with the _www.ac6rb.com_
<http://www.ac6rb.com/> camstream or if it is over loaded with viewers
there is a backup streaming video. N6GKB, Keith has a Ustream from Snow
Peak you can use. His address is : _http://ustream.tv/channel/n6gkb_ =
*Not Operational at this Time.
*_____
Local News - Southern California
Check-ins for ATN-CA Net: Internet *(9)* 2 Meters/1.2 GHz *(4)* Video
(17) Total *(30)*
_____
_____
*Repeater Reports *for the ATN-CA Repeaters

_____
//
Oat Mtn.: On Sat. I was having a QSO with KG6CO Ray at 2:30 PM and I lost his audio. When he sent it back to me and I keyed up my transmitter I couldn't hear myself coming back from Oat Mtn.. Later I was able to do some testing with Don KE6BXT when he logged into AC6RB's Camstream and I could explain what was going on. Oat and Santiago can see each others pictures just as it should be. Santiago does not receive any audio via the ATV audio carrier from Oat so they can't hear us. We are also unable to hear any audio via the ATV audio carrier from Oat as well as Santiago. N6IFU
Mt. Wilson:
Snow Peak:
Point Loma:
Santa Barbara:
Mt Potosi:
Santiago Peak (network hub):
Blueridge:
_____
Repairs Needed for the ATN-CA Repeaters
_____
Blueridge:
1. Once Mt. Potosi has it's link operational Blueridge can reestablish it's receive link
and make any adjustments needed.
Santa Barbara:
1. Reestablish link to Santiago.
Mt. Wilson:
1. Install 2.4 GHz Receiver ????
2. Build and install 2.4 GHz receiver for link from Blueridge (on hold 5/5/08)
3. Might need an additional port on the controller????
Oat Mtn.:
1. Replace plastic wire ties with appropriate fasteners.
2. Tune 2.4 GHz link dipole for better SWR. It would be a good idea to sweep the
1200 MHz antenna at the same time as well.
Santiago Peak:
1. Remove KC6UQH's call and Palomar from the W6ATN repeaters ID's (late spring
early summer when the new controller is installed)
2. Look into weak signal getting into one of the inputs.*
**Snow Peak:
*1. Repair the Snow Peak Repeater/link.
Point Loma:
1. Install link radios and establish link to Santiago. (Planned by April 29th)
Mount Potosi:
1. Reestablish link to Blueridge
_____

*Letters to the Editor *
If you have an opinion or viewpoint that you would like to express to
the readers, please submit your letters to:
atv-newsletter@... <mailto:atv-newsletter@...>
_____
See you all on ATV,
Bryon Foster
N6IFU
Editor and Publisher of the "ATV Newsletter"

Please send this newsletter to anyone you think will enjoy it.

If you wish to subscribe to the "ATV Newsletter", send me an email I
will add you to my mailing list. The newsletter is FREE.

atv-newsletter@... <mailto:atv-newsletter@...>

If you are receiving the newsletter and would like it stopped, please
send me an email as well.

My "Mailing List" is not sold or shared.

The "ATV Newsletter" *is not affiliated with "ATN". *But I am a paying
member of ATN.

Deadline for copy for the newsletter is 12:00 noon PT every Friday.

Make every e-mail and IM count. Join the i'm Initiative from Microsoft.
<http://im.live.com/Messenger/IM/Join/Default.aspx?source=EML_WL_%20MakeCount>

John Barrett wrote:
>
> I was using an analog PTZ camera with the Osprey video capture and the VLC
> streaming server to deliver streaming video over WiFi at the Christmas
> parade. The only real problem is the processing overhead to compress the
> stream - 2ghz or better required to compress and stream from a single
> computer. (I didn't have quite that much and ended up having to use 2
> machines).. since the Osprey is NTSC input, you can use just about any
> camera.
>
> The other problem was line of site to the far end :-) but the video
> portion
> worked great :-)
>
> Is anyone really doing ATV any more ?? I asked around a few months
> back and
> the impression I got is that ATV has pretty much died.
>
> Since ATV wants a standard NTSC input, the only way you are going to
> link a
> digital stream to an ATV transmitter is by using a video card with TV out,

> probably as a secondary display on the computer connected to the net. The
> Osprey card or any other supported by the VLC streaming encoder would do
> fine for encoding the video - preferably one that has on board compression
> to reduce the work load on the host computer.
>
> If you wanted to do a network like Echolink/IRLP, all that is really
> needed
> is a registration web server and some simple software that will keep the
> registration server notified of active video sources running on the
> machine
> sourcing the video stream. At the "receiving" end, viewers could pick up a
> stream by installing the VLC player and clicking a link on the website to
> access the stream. Setting up the player to display on a TV-out card would
> allow the video to be routed to an ATV transmitter.
>
> Using anything that doesn't put out standard NTSC presents a problem
> delivering the video to an ATV transmitter.. most web cam type video
> devices
> have low resolution and don't look all that good when blown up to full
> screen even at 640x480 TV resolution. However, if video quality isn't that
> much of an issue, then if there is a way to capture to a stream from your
> camera, rather than to a file, it can be made to work. Also note that many
> web cam type devices do not output at full 30 frames per second, but that
> doesn't matter much once the stream is fed to a TV-out card.
>
> VLC player and server are available free for most any platform out there -
> Winblows, McCrap, Limpux :-)
>
> Hope that gives you a few ideas :-)
>
> _____
>
> From: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> [mailto:ntms-hsmm@yahoogroups.com
> <mailto:ntms-hsmm%40yahoogroups.com>] On Behalf
> Of Steve
> Sent: Saturday, May 31, 2008 11:27 PM
> To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> Subject: [ntms-hsmm] Re: Are any hams sending digital video? How about a
> Hamcom presentation?
>
> I have used the D-Link DCS-(G)900 IP camera over 802.11. I chose that
> camera because there is Linux software for it, in addition to it's own
> built in web-server/viewer.
> http://panteltje. <http://panteltje.com/panteltje/mcamip/
> <http://panteltje.com/panteltje/mcamip/>>
> com/panteltje/mcamip/
>
> I successfully used this to monitor one of the our club sites that we
> have soda machine at. We had some vandalism going on at that site, so

> I put the D-Link camera up and would watch it from home over with
> wireless network.
>
> >
> > Speaking of presentations at the Plano Hamcom in two weeks... I
> > would really enjoy it if someone would talk about any digital video
> > links being set up and used either through modified 802.11 wireless
> > routers or other means. We have quite a vast network of digital
> > audio links built up between Echolink and IRLP but I have seen no
> > discussion about digital video networks over the ham bands or linked
> > to the internet.
> >
> > What's the cheapest way to send digital video using the latest off
> > the shelf hardware and software? I saw some video security camera
> > systems at Fry's that seemed to claim that you can monitor a camera
> > remotely over the internet. Can this be leveraged into Ham ATV use?
> > I have a Cannon power shot A530 camera that has a USB port and it can
> > record avi video as well as still shots. Is there any way I can use
> > this as my digital video source and route the video to my local ATV
> > repeater?
> >
> > It would be great if an ATV repeater in one city could be digital
> > video linked to other ATV repeaters in other parts of the country
> > with a system similar to what echolink does for audio.
> >
> > Let me know if you have any other ideas.
> >
> > Craig
> > wd5bdx
> >
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

1274. RE: [ntms-hsmm] Re: Are any hams sending digital video? How about a Hamcom presentation?

Yahoo group: DAWG-HSMM
Date: 2008-06-02 02:03:04 UTC
From: John Barrett
Topic: 1251 Message: 1274

OK - I'll rephrase that - there isn't much ATV happening here in the DFW area.

I originally wanted to set up ATV for my camera feed, but was convinced to go WiFi because there were not a lot of people with ATV hardware in the area.

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of KD5LWU Johnny
Sent: Sunday, June 01, 2008 8:59 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Re: Are any hams sending digital video? How about a Hamcom presentation?

There are lot's of ATV activity still going on I have done a cut and paste of a ATV newsletter of a group of folks that are streaming their ATV repeaters to the Internet. At my RFhamcams Yahoo group we talk a lot about this issue....here is the news letter.....

ATV Newsletter
*June 3, 2008 *Circulation 1100+
Vol. 1 No. 43

In this Edition:
* World News this Week
* BATC Press Release *Exciting News*
* ATV Contacts Wanted
* Another New Camstream K8DMR
* San Bernardino Microwave Society Meeting
* *Are Camstreams BAD? *
* World Wide ATV Open House
* Digital-ATV
* Buy-Sell-Trade
* ATV Guide
* ATV Website Guide
* Internet Viewers
* This weeks Joke
* Local News
* Repeater Reports
** Oat Mtn. lost all audio.*
* Repairs Needed
* Letters to the Editor

World News this Week

BATC Press Release
"British Amateur Television Club"
I received this email and it is exciting news for ATV.

Bryon
The Streamer hardware should get installed tonight,
I hope GB3BH soon gets linked in and then other follow
Press release below cleared to use
Trevor

www.batc.tv <http://www.batc. <http://www.batc.tv/> tv/> is the latest
venture by the BATC
into Television
streaming. The site will bring streamed ATV to the internet and allow
cross repeater working from its multi screen display. The site will also
carry a library of ATV programmes and be a port for other ATV events
that will be streamed from around the world.

Some of you may have already seen Camstream and other repeater
streaming, how will this site differ? The software has been written
To allow multi user display, so that more than one repeater can be
viewed at the same time allowing CQ ATV to be called on one repeater and
others monitored for a duplex QSO. In the past using single repeater
monitoring this has been possible but only a single repeater could be
monitored and delay was a major problem.

www.batc.tv <http://www.batc. <http://www.batc.tv/> tv/> will be located
in the Telehouse,
Docklands data centre
here in the UK and connected to a major internet pipe to minimise
delays. The streamer will use flash media so the picture quality will be
the very best that modern technology can provide at the present time.

This is an expensive venture and although no charge will be made to ATV
repeater groups for streaming we are looking for other users and
sponsors to help make this site a place to visit. Ventures from other
users are not restricted to ATV or even ham radio. If you would like to
start your own streaming service then please contact us - we have the
necessary space available.

If you are a company and would like to help support this project, then
for a small donation we can display and hyper link your logo from our
front page.

If you would like to stream your repeater or have a live event coming up
you would like to stream or if you have library ATV material suitable
for this site, please contact _info@... <mailto:_info%40batc.tv> _
<mailto:info@... <mailto:info%40batc.tv> >
****
It is great to see that people are thinking BIG when it comes to ATV and

not small.
N6IFU
****
ATV Contacts Wanted
I received this email from Ian this week and it looks like ATV is
getting bigger already.

/hi all/
/we are a small 2.4ghz active atv group in south yorkshire/
/we transmit live atv from hams in their shack - car - bicycle -
wheelchair or just walking/
/we are looking for skeds via camstreams between 1400-2200 utc/
/please email me if you would like an atv qso/
//
/73 Ian G3ZHI/
//
/_g3zhi@hotmail. <mailto:%2F_g3zhi%40hotmail.com> com_
<mailto:g3zhi@hotmail. <mailto:g3zhi%40hotmail.com> com> /
//
/_http://www.qsl. <http://www.qsl.net/g3zhi_/> net/g3zhi_// - many ham radio
links/
//
/_http://www.ukirlp. <http://www.ukirlp.co.uk_/> co.uk_/ <http://www.ukirlp.
<http://www.ukirlp.co.uk/> co.uk/>
//
/G4NJI IRLP 5200 Echolink 135909
Rotherham simplex 145.2875mhz /
//
/Skype g3zhiian
VoiP 642109/
//
/Mobile: 0798 473 2058
**********/
Ian helped me get the ATV Newsletter off the ground in the UK and I
consider him a good friend. N6IFU
****
Another New Camstream
I received an email from Ron, K8DMR and he wanted me to let you all know
that he has establish yet another Canstream for ATV. His URL is
http://k8dmr. <http://k8dmr.camstreams.com> camstreams.com_ <http://k8dmr.
<http://k8dmr.camstreams.com/> camstreams.com/>
****
San Bernardino Microwave Society Meeting
The SBMS meeting is this coming Thursday June the 5th.
*The "Tech Talk" this month is: *
"Digital Signal Processing"
Presented By Dr. Prentiss Robinson
SBMS Meetings are always worth watching.
It starts at 7:00 PM PT and runs to 9:00 PM

You can watch it via the *AC6RB Camstream*
go to _www.ac6rb.com_ <http://www.ac6rb. <http://www.ac6rb.com/> com/> and
click on option #1 or #2

I will be logging all Internet Viewers and checking them in
to the meeting via ATV

I also saw W6KVC, Gary testing his ATV equipment this week. He has some
new equipment for production and broadcast of the SBMS meeting. If you
haven't watched the SBMS meeting it's a great example of excellent
production quality due to Gary's hard work. And the SBMS should consider
it's meetings and Tech Talk be added to the BATC video Library.

Are Camstreams BAD?

I have tried to think of any negative that might be associated with the
use of Camstreams or Ustreams in conjunction with with ATV but I have
never been able to think of one reason until I heard a Ham on my local
network express his reason.

He was telling another Ham that he thought the Camstream on our network
was great for our Net but he thought it shouldn't be on 24/7. He went on
to say it makes him feel like people were looking in his windows by
having it on 24/7 and it should be turned off.

I thought about his objection and it became clear to me that when you
are on HF, anyone with a short wave radio can listen in. And on UHF and
VHF anyone with a scanner can listen in. So what is he afraid of people
seeing and hearing?

If he is operating his ATV Station in accordance with FCC Laws why is he
concerned about someone watching the camstream. It makes me feel that he
has something to hide.

I don't think he knows how silly his objection sounds and if he thinks
people are looking in his windows he shouldn't turn on his
ATV transmitter and no one will be able in look in his windows.

I think this Ham's comments shouts out a good reason for having a
Camstream on your ATV repeater. If someone is breaking the law we all
should take steps to keep ATV above reproach by policing it ourselves.

Last week the President of ATN-CA Don KE6BXT put a letter in the
newsletter asking for anyone seeing objectionable language or images on
the ATN-CA repeaters should contact him at _donhill@gmail.
<mailto:_donhill%40gmail.com> com_
<mailto:donhill@gmail. <mailto:donhill%40gmail.com> com> *Good for you Don!
*I am sure Don and the
club officers will keep your identity confidential.
/_____/
World Wide ATV Open House
Octorber 25, 2008
_____
_____

*Digital-ATV
*
No new news!
---
*Buy-Sell-Trade *

For Sale:
Heatth Packit model HK 232.Fully functional, includes original manual. $
Make offer.
Contact KA6JJH. _oscar_@wairtime. <mailto:_oscar_%40wairtime.com> com_
<mailto:oscar_@wairtime. <mailto:oscar_%40wairtime.com> com>
****
For Sale:
I have a couple new pf-0031 880-925 6 watt rf power module. I used them
with my 900mhz transverter and atv brick.
73's n0mnb
_nomnb@amsat. <mailto:_nomnb%40amsat.org> org_ <mailto:nomnb@amsat.
<mailto:nomnb%40amsat.org> org>
****
For Sale:
Amateur Television Repeater Controllers
ATVC-4 Plus is Intuitive Circuit's second generation Amateur Television
repeater controller.
Some of the many features that the ATVC-4 includes are:
** Five Video Input Sources*
** Four Mixable Audio Input Sources*
** Non-volatile Storage *
** DTMF Control*
** Beacon Mode*
** Robust CW Feedback*
** Password Protected*
** And Many More Features*
For example a major new feature is four individual sync detection
circuits allowing for true priority based ATV receiver switching.
Only $349.00
Contact: Intuitive Circuits, LLC 3928 Wardlow Ct., Troy, MI - (248) 588-4400
To go right to the
ATVC-4 _http://www.icircuit <http://www.icircuits.com/prod_atv_main.html_>
s.com/prod_atv_main.html_
To go to the main page _http://www.icircuit <http://www.icircuits.com_>
s.com_
<http://www.icircuit <http://www.icircuits.com/> s.com/>
****
For Sale
ATV Equipment for Sale
1 P.C. Electronics ATV Repeater Receiver ATVR-4 (434.00 and 439.25)
[$149.00]
1 P.C. Electronics ATV Repeater Receiver ATVR-4 (439.25 LSB) [$149.00]
1 P.C. Electronics ATV Repeater Transmitter RTX-23 (1253.25) [$164.00]
1 P.C. Electronics ATV Crystal Downconverter TVCX-23 N (1253.25) [$55.00]

1 P.C. Electronics ATV Crystal Downconverter TVCX-23 BNC (1253.25) [$55.00]
1 Down East Microwave 23cm weatherproof LNA 23LNA [$60.00]
1 Elktronics board in an enclousre [$make offer]
2 Superscope digital quad splitter b/w rackmount VMS550mkll [$make offer]
Filters
2 International Crystal Manufacturing (ICM) FL407 434.000 VSB Filter
(tuned for 439.25 LSB) [$make offer]
2 Digital Communications, Inc. (DCI) 440-450 MHz Bandpass Filter
DCI-445-10C 4 pole [$95.00]
2 Digital Communications, Inc. (DCI) 2 Meter Bandpass Filter DCI-146-4H
4 pole [$85.00]
Antennas
1 Comet GP-20 1.2 GHz 14.9 dbi omni antenna (new) [$make offer]
1 Diamond U-300 440/1200 8.6 db/ 13.2 db omni antenna [$make offer]
Radios
Kenwood TM-441A [$175.00]
Miscellaneous
MFJ TNC MFJ-1274 [$make offer]
Kantronics Packet Communicator 9612 Plus [$make offer]
Mountain View Communications Technology GOES Weather Satellite
Downconverter 1691-A [$make offer]
Hamtronics NOAA Weather Satellite Receiver [$make offer]
MultiFAX Weather Satellite PC card [$make offer]
Kansas City Tracker PC card [$make offer]
- Chris, N8UDK
Contact: _chris@icircuits. <mailto:_chris%40icircuits.com> com_
<mailto:chris@icircuits. <mailto:chris%40icircuits.com> com>
****
For Sale
The following is a list of items that I have. It is all "C" band equipment.
1. Polarizer (Chaparal Feed Horn)
2. LNA (it appears to be new) No Temp marked
3. Echostar Satellite receilver, Mod. JR200
4. Amplica Satellilte receiver, Mod. aCSR 1000
Contact Spencer, N6IWY at _n6iwy@sbcglobal. <mailto:_n6iwy%40sbcglobal.net>
net_ <mailto:n6iwy@sbcglobal. <mailto:n6iwy%40sbcglobal.net> net>
****
Looking For:
I am looking for a *military "Sound-Powered" handset.* Anyone that has
one for sale, please
contact Spencer, N6IWY at < _n6iwy@sbcglobal.
<mailto:_n6iwy%40sbcglobal.net> net_
<mailto:n6iwy@sbcglobal. <mailto:n6iwy%40sbcglobal.net> net> >.
****
Anyone looking to buy, sell or trade ATV Equipment are welcomed to send
your ad(s) for publication to:
_atv-newsletter@ <mailto:_atv-newsletter%40hotmail.com> hotmail.com_
<mailto:atv-newsletter@ <mailto:atv-newsletter%40hotmail.com> hotmail.com>
_____
*ATV Guide

*Scheduled Program Guide for ATV
Monday:
SCART Net (GB3IV)
http://g7jtt. <http://g7jtt.camstreams.com> camstreams.com_ <http://g7jtt.
<http://g7jtt.camstreams.com/> camstreams.com/>
Tuesday:
ATCO ATV Net
Every Tuesday at 6:00 PM PT/9:00 PM ET
* _http://wb8lga. <http://wb8lga.camstreams.com_> camstreams.com_
<http://wb8lga. <http://wb8lga.camstreams.com/> camstreams.com/> *
W7TED Repeaters Net Night
Every Tuesday at 8:00 PM PT/11:00 PM ET
http://w7ted. <http://w7ted.camstreams.com> camstreams.com_ <http://w7ted.
<http://w7ted.camstreams.com/> camstreams.com/>
Torbay Amateur Television & Microwave Group
Group Activity Night
Every Tuesday at 2000 to 2200 UTC/1:00 PM PT/4:00 PM ET
or _www.gb3tb.dyndns.tv_ <http://www.gb3tb. <http://www.gb3tb.dyndns.tv/>
dyndns.tv/>
_http://www.ustream.
<http://www.ustream.tv/channel/gb3tb-23cms-atv-repeater_>
tv/channel/gb3tb-23cms-atv-repeater_
ATN-CA Net
Every Tuesday at 8:00 PM PT/11:00 PM ET
www.ac6rb.com <http://www.ac6rb. <http://www.ac6rb.com/> com/> then click
on option #1 or #2
Backup Streaming Video Address for the Net
http://ustream. <http://ustream.tv/channel/n6gkb> tv/channel/n6gkb_ via
Snow Peak Repeater
Wednesday:
Chat Night, GB3ZZ
Every Wednesday at 2100 UTC/1:00 PM PT/4:00 PM ET
http://gb3zz. <http://gb3zz.camstreams.com> camstreams.com_ <http://gb3zz.
<http://gb3zz.camstreams.com/> camstreams.com/>
CATS Net
Every Wednesday at 6:00 PM PT/9:00 PM ET
http://kb3lnn. <http://kb3lnn.camstreams.com> camstreams.com_
<http://kb3lnn. <http://kb3lnn.camstreams.com/> camstreams.com/>
Thursday:
Torbay Amateur Television & Microwave Group
Group Activity Night
Every Thursday at 2000 to 2200 UTC/1:00 PM PT/4:00 PM ET
_http://www.ustream.
<http://www.ustream.tv/channel/gb3tb-23cms-atv-repeater_>
tv/channel/gb3tb-23cms-atv-repeater_
ot _www.gb3tb.dyndns.tv_ <http://www.gb3tb. <http://www.gb3tb.dyndns.tv/>
dyndns.tv/>
*San Bernardino Microwave Society Meeting
Topic of Tech Talk: "Digital Signal Processing"*
*Presented by Dr. Prentiss Robinson

Thursday June 5th from 7:00 to 9:00 PM PT
10:00 to 12:00 Midnight ET
* _www.ac6rb.com_ <http://www.ac6rb. <http://www.ac6rb.com/> com/> then
click on option #1 or #2
BRATS Net
Every Thursday at 6:00 PM PT/9:00 PM ET
http://kb3lnn. <http://kb3lnn.camstreams.com> camstreams.com_
<http://kb3lnn. <http://kb3lnn.camstreams.com/> camstreams.com/>
Friday:
GB3GG, Grimsby Amateur Television Group Net
Every Friday at 2100 ZULU
2:00 PM PT/5:00 PM ET
http://www.ustream. <http://www.ustream.tv/channel/gb3gg>
tv/channel/gb3gg_
Sunday:
Coffee Klatch
Every Sunday at 9:00 AM PT/12:00 Noon ET
www.ac6rb.com <http://www.ac6rb. <http://www.ac6rb.com/> com/> then click
on option #1 or #2
International ATV Net
Every Sunday at 12:00 Noon PT/3:00 PM ET
http://kb3lnn. <http://kb3lnn.camstreams.com> camstreams.com_
<http://kb3lnn. <http://kb3lnn.camstreams.com/> camstreams.com/>
Torbay Amateur Television & Microwave Group
Group Activity Night
Every Sunday at 2000 to 2200 UTC/1:00 PM PT/4:00 PM ET
_http://www.ustream.
<http://www.ustream.tv/channel/gb3tb-23cms-atv-repeater_>
tv/channel/gb3tb-23cms-atv-repeater_
or _www.gb3tb.dyndns.tv_ <http://www.gb3tb. <http://www.gb3tb.dyndns.tv/>
dyndns.tv/>
MATS Net
Every Sunday at 5:00 PM PT/8:00 PM ET
http://kb3lnn. <http://kb3lnn.camstreams.com> camstreams.com_
<http://kb3lnn. <http://kb3lnn.camstreams.com/> camstreams.com/>

ATV DXing
KA9UVY _http://ka9uvy. <http://ka9uvy.camstreams.com_> camstreams.com_
<http://ka9uvy. <http://ka9uvy.camstreams.com/> camstreams.com/>
KA9UVY, Bob is active mostly morning during weekdays
And all hours weekends.

Hepburn tropo forecast page:
http://www.dxinfoce <http://www.dxinfocenter.com/tropo.html>
nter.com/tropo.html_

ATV DXers post their CQ's and Reports to the ATV logger page:
http://dxworld. <http://dxworld.com/atvlog.html> com/atvlog.html_

Hawaiian Beacons for the West Coast provided by. "KH6HME"
144.170 MHz

432.075 MHz
1296.34 MHz

Other Streaming ATV Videos
K8DMR's Camstream
*_http://k8dmr. <http://k8dmr.camstreams.com_> camstreams.com_
<http://k8dmr. <http://k8dmr.camstreams.com/> camstreams.com/> *
**
WB8LGA's Camstream
Links to other camstreams and Google ATV Maps
And location to view the ATCO ATV Net
http://wb8lga. <http://wb8lga.camstreams.com> camstreams.com_
<http://wb8lga. <http://wb8lga.camstreams.com/> camstreams.com/>

Severnside Television Group
_http://www.camsecur
<http://www.camsecure.co.uk/Camsecure_Radio_Amateurs.html_>
e.co.uk/Camsecure_Radio_Amateurs.html_

N6GKB's Tower Cam in Yucca Valley, CA and back-up for the AC6RB
streaming videos for the ATN.
http://ustream. <http://ustream.tv/channel/n6gkb> tv/channel/n6gkb_

If you have a scheduled Net or Event on your Streaming Video that you
would like listed in the "ATV Guide" please send your information to:
_atv-newsletter@ <mailto:_atv-newsletter%40hotmail.com> hotmail.com_
<mailto:atv-newsletter@ <mailto:atv-newsletter%40hotmail.com> hotmail.com>
_____
*ATV WEBSITE GUIDE
*_____
Acres Electronics, ZL4TAO
ATV Gear
www.acreselectronics.co.nz <http://www.acresele
<http://www.acreselectronics.co.nz/> ctronics.co.nz/>
Amateur Radio Victoria
www.users.amateurradio.com.au <http://www.users.
<http://www.users.amateurradio.com.au/> amateurradio.com.au/>
Amateur Radio Victoria/VK3FCE
www.amateurradio.com.au/vk3fce <http://www.amateurr
<http://www.amateurradio.com.au/vk3fce> adio.com.au/vk3fce>
Associated Radio Amateurs of Long Beach, Inc.
Club Station located on "Queen Mary" W6RO
http://www.aralb. <http://www.aralb.org> org_ <http://www.aralb.
<http://www.aralb.org/> org/>
ATCO Newsletter
www.atco.tv <http://www.atco. <http://www.atco.tv/> tv/>
Amateur Television Network
www.atn-tv.org <http://www.atn- <http://www.atn-tv.org/> tv.org/>
Amateur Television Quarterly
http://www.hampubs. <http://www.hampubs.com> com_ <http://www.hampubs.
<http://www.hampubs.com/> com/>

ATV Newsletter (Back Issues Only)
http://www.qsl. <http://www.qsl.net/g3zhi/atvnews.htm>
net/g3zhi/atvnews.htm_
Baltimore Radio Amateur Television Society (BRATS)
http://www.bratsatv <http://www.bratsatv.org> .org_ <http://www.bratsatv
<http://www.bratsatv.org/> .org/>
British Amateur Television Club Forums
http://www.g1fef. <http://www.g1fef.co.uk/forums> co.uk/forums_
British Amateur Television Club Website (BATC)
http://batc. <http://batc.org.uk> org.uk_ <http://batc.
<http://batc.org.uk/> org.uk/>
Chesapeake Amateur Television Society (CATS)
http://mysite. <http://mysite.verizon/vzev3ql6/id.html>
verizon/vzev3ql6/id.html_
CQ-TV Magazine, view back issues and the place to subscribe
www.cq-tv.com <http://www.cq- <http://www.cq-tv.com/> tv.com/>
DATV/Digital Amateur Television Primer, G7LWT
*And another location you can download bask issues
of the "ATV Newsletter"
* _www.g7lwt.com_ <http://www.g7lwt. <http://www.g7lwt.com/> com/>
Dutch Digital Amateur Television Site
http://d-atv. <http://d-atv.com> com_ <http://d-atv. <http://d-atv.com/>
com/>
G3ZHI
Many Ham Radio Links
http://www.qsl. <http://www.qsl.net/g3zhi> net/g3zhi_
GB3BH
http://gb3bh. <http://gb3bh.com> com_ <http://gb3bh. <http://gb3bh.com/>
com/>
GB3KM
http://myspace. <http://myspace.freeserve.com> freeserve.com_
<http://myspace. <http://myspace.freeserve.com/> freeserve.com/>
GW6BWX's
Amateur Television Electronics Projects ATV/DATV
http://www.atv- <http://www.atv-projects.com/index.html>
projects.com/index.html_
Hamoholics, 2E0GYZ
www.2e0gyz.ning.com <http://www.2e0gyz. <http://www.2e0gyz.ning.com/>
ning.com/>
Intuitive Circuits, LLC
ATV Repeater Controllers _http://www.icircuit
<http://www.icircuits.com/prod_atv_main.html_> s.com/prod_atv_main.html_
On-Screen ID Overlay and home page _http://www.icircuit
<http://www.icircuits.com_> s.com_
<http://www.icircuit <http://www.icircuits.com/> s.com/>
K6BEN-ATV
http://www.batnet. <http://www.batnet.com/~mfwright.mfwright/k6ben.html>
com/~mfwright.mfwright/k6ben.html_
<http://www.batnet. <http://www.batnet.com/%7Emfwright.mfwright/k6ben.html>
com/%7Emfwright.mfwright/k6ben.html>

Las Vegas Radio Amateur Club
http://www.larac. <http://www.larac.org> org_ <http://www.larac.
<http://www.larac.org/> org/> and _www.hxo.com_
<http://www.hxo. <http://www.hxo.com/> com/>
Microwave Experimenters Television System (METS)
http://qsl.net/ <http://qsl.net/kc6ccc/> kc6ccc/_
Mini-kits Hi-Tech RF Kits and Components
http://www.minikits <http://www.minikits.com.au> .com.au_
<http://www.minikits <http://www.minikits.com.au/> .com.au/>
MNFAT Minnesota Group/KB0OZN
www.Mnfat.net <http://www.mnfat. <http://www.mnfat.net/> net/>
N6HOG's Weather Web
http://n6hog. <http://n6hog.com> com_ <http://n6hog. <http://n6hog.com/>
com/>
San Bernardino Microwave Society (SBMS)
http://www.ham- <http://www.ham-radio.com/sbms> radio.com/sbms_
Severnside Television Group
_http://www.camsecur
<http://www.camsecure.co.uk/Camsecure_Radio_Amateurs.html_>
e.co.uk/Camsecure_Radio_Amateurs.html_
Southgate Amateur Radio Club
www.southgatearc.org <http://www.southgat <http://www.southgatearc.org/>
earc.org/>
WA6NUT's page
HF with FFT-TV
http://www.hamsdr. <http://www.hamsdr.com/personaldirectory.aspx?did=1139>
com/personaldirectory.aspx?did=1139_
World Wide ATV Open House
October 25, 2008 For more info or to list your
Repeater or Individul webstream.
* **_world-wide-
<mailto:%2A%2A_world-wide-atv-repeater-network%40hotmail.com>
atv-repeater-network@..._*
<mailto:world-wide-atv-
<mailto:world-wide-atv-repeater-network%40hotmail.com>
repeater-network@...>*
*
If you have an ATV Streaming Video or ATV website that you would like to
have listed in the ATV Guide please send your info to:
_atv-newsletter@ <mailto:_atv-newsletter%40hotmail.com> hotmail.com_
<mailto:atv-newsletter@ <mailto:atv-newsletter%40hotmail.com> hotmail.com>
_____
*This weeks Joke: *
*Two Cannibals are are eating a clown. One says to the other and says:
"Does this taste funny to you?"*
From Art KC6UQH
Got a joke? send it to _atv-newsletter@
<mailto:_atv-newsletter%40hotmail.com> hotmail.com_
<mailto:atv-newsletter@ <mailto:atv-newsletter%40hotmail.com> hotmail.com>
_____

*Internet Viewers
*
Internet Check-ins/Viewers during the Net this week:

K3ATI Jim

W7TED Ted

AF6AW Mike

N3IUO Randy

*AE6QU * Ron

KD6WKS Marty

KB6CJZ Robbie

W6HUY Wayne

WI0N Ross

*Thank you all for checking in and I hope to see you again next week. *
**
All Internet Viewers are welcomed.

You are invited to check-in to the weekly ATN-CA Net every Tuesday at
8:00 PM PT. I am net control and I log on to the _www.ac6rb.com_
<http://www.ac6rb. <http://www.ac6rb.com/> com/> website about an hour
before the net and chat
with viewers. And I log in everyone so make a point to watch next Tuesday.

AC6RB offers Camstream and Ustream streaming video from his website
www.ac6rb.com <http://www.ac6rb. <http://www.ac6rb.com/> com/>

In the event that there is a problem with the _www.ac6rb.com_
<http://www.ac6rb. <http://www.ac6rb.com/> com/> camstream or if it is over
loaded with viewers
there is a backup streaming video. N6GKB, Keith has a Ustream from Snow
Peak you can use. His address is : _http://ustream.
<http://ustream.tv/channel/n6gkb_> tv/channel/n6gkb_ =
*Not Operational at this Time.
*_____
Local News - Southern California
Check-ins for ATN-CA Net: Internet *(9)* 2 Meters/1.2 GHz *(4)* Video
(17) Total *(30)*
_____
_____
*Repeater Reports *for the ATN-CA Repeaters
_____
//
Oat Mtn.: On Sat. I was having a QSO with KG6CO Ray at 2:30 PM and I
lost his audio. When he sent it back to me and I keyed up my transmitter

I couldn't hear myself coming back from Oat Mtn.. Later I was able to do some testing with Don KE6BXT when he logged into AC6RB's Camstream and I could explain what was going on. Oat and Santiago can see each others pictures just as it should be. Santiago does not receive any audio via the ATV audio carrier from Oat so they can't hear us. We are also unable to hear any audio via the ATV audio carrier from Oat as well as Santiago. N6IFU

Mt. Wilson:

Snow Peak:

Point Loma:

Santa Barbara:

Mt Potosi:

Santiago Peak (network hub):

Blueridge:

_____

Repairs Needed for the ATN-CA Repeaters

_____

Blueridge:

1. Once Mt. Potosi has it's link operational Blueridge can reestablish it's receive link
and make any adjustments needed.

Santa Barbara:

1. Reestablish link to Santiago.

Mt. Wilson:

1. Install 2.4 GHz Receiver ????
2. Build and install 2.4 GHz receiver for link from Blueridge (on hold 5/5/08)
3. Might need an additional port on the controller????

Oat Mtn.:

1. Replace plastic wire ties with appropriate fasteners.
2. Tune 2.4 GHz link dipole for better SWR. It would be a good idea to sweep the
1200 MHz antenna at the same time as well.

Santiago Peak:

1. Remove KC6UQH's call and Palomar from the W6ATN repeaters ID's (late spring
early summer when the new controller is installed)
2. Look into weak signal getting into one of the inputs.*

**Snow Peak:

*1. Repair the Snow Peak Repeater/link.

Point Loma:

1. Install link radios and establish link to Santiago. (Planned by April 29th)

Mount Potosi:

1. Reestablish link to Blueridge

_____

*Letters to the Editor *

If you have an opinion or viewpoint that you would like to express to the readers, please submit your letters to:
_atv-newsletter@ <mailto:_atv-newsletter%40hotmail.com> hotmail.com_

<mailto:atv-newsletter@ <mailto:atv-newsletter%40hotmail.com> hotmail.com>
_____
See you all on ATV,
Bryon Foster
N6IFU
Editor and Publisher of the "ATV Newsletter"

Please send this newsletter to anyone you think will enjoy it.

If you wish to subscribe to the "ATV Newsletter", send me an email I will add you to my mailing list. The newsletter is FREE.

*_atv-newsletter@ <mailto:%2A_atv-newsletter%40hotmail.com> hotmail.com_*
<mailto:atv-newsletter@ <mailto:atv-newsletter%40hotmail.com> hotmail.com>

If you are receiving the newsletter and would like it stopped, please send me an email as well.

My "Mailing List" is not sold or shared.

The "ATV Newsletter" *is not affiliated with "ATN". *But I am a paying member of ATN.

Deadline for copy for the newsletter is 12:00 noon PT every Friday.

Make every e-mail and IM count. Join the i'm Initiative from Microsoft.
<http://im.live.
<http://im.live.com/Messenger/IM/Join/Default.aspx?source=EML_WL_%20MakeCoun
t> com/Messenger/IM/Join/Default.aspx?source=EML_WL_%20MakeCount>

John Barrett wrote:
>
> I was using an analog PTZ camera with the Osprey video capture and the VLC
> streaming server to deliver streaming video over WiFi at the Christmas
> parade. The only real problem is the processing overhead to compress the
> stream - 2ghz or better required to compress and stream from a single
> computer. (I didn't have quite that much and ended up having to use 2
> machines).. since the Osprey is NTSC input, you can use just about any
> camera.
>
> The other problem was line of site to the far end :-) but the video
> portion
> worked great :-)
>
> Is anyone really doing ATV any more ?? I asked around a few months
> back and
> the impression I got is that ATV has pretty much died.
>
> Since ATV wants a standard NTSC input, the only way you are going to
> link a
> digital stream to an ATV transmitter is by using a video card with TV out,

> probably as a secondary display on the computer connected to the net. The
> Osprey card or any other supported by the VLC streaming encoder would do
> fine for encoding the video - preferably one that has on board compression
> to reduce the work load on the host computer.
>
> If you wanted to do a network like Echolink/IRLP, all that is really
> needed
> is a registration web server and some simple software that will keep the
> registration server notified of active video sources running on the
> machine
> sourcing the video stream. At the "receiving" end, viewers could pick up a
> stream by installing the VLC player and clicking a link on the website to
> access the stream. Setting up the player to display on a TV-out card would
> allow the video to be routed to an ATV transmitter.
>
> Using anything that doesn't put out standard NTSC presents a problem
> delivering the video to an ATV transmitter.. most web cam type video
> devices
> have low resolution and don't look all that good when blown up to full
> screen even at 640x480 TV resolution. However, if video quality isn't that
> much of an issue, then if there is a way to capture to a stream from your
> camera, rather than to a file, it can be made to work. Also note that many
> web cam type devices do not output at full 30 frames per second, but that
> doesn't matter much once the stream is fed to a TV-out card.
>
> VLC player and server are available free for most any platform out there -
> Winblows, McCrap, Limpux :-)
>
> Hope that gives you a few ideas :-)
>
> _____
>
> From: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
<mailto:ntms-hsmm%40yahoogroups.com>
> [mailto:ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> <mailto:ntms-hsmm%40yahoogroups.com>] On Behalf
> Of Steve
> Sent: Saturday, May 31, 2008 11:27 PM
> To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
<mailto:ntms-hsmm%40yahoogroups.com>
> Subject: [ntms-hsmm] Re: Are any hams sending digital video? How about a
> Hamcom presentation?
>
> I have used the D-Link DCS-(G)900 IP camera over 802.11. I chose that
> camera because there is Linux software for it, in addition to it's own
> built in web-server/viewer.
> http://panteltje. <http://panteltje.
<http://panteltje.com/panteltje/mcamip/> com/panteltje/mcamip/
> <http://panteltje. <http://panteltje.com/panteltje/mcamip/>
com/panteltje/mcamip/>>

> com/panteltje/mcamip/
>
> I successfully used this to monitor one of the our club sites that we
> have soda machine at. We had some vandalism going on at that site, so
> I put the D-Link camera up and would watch it from home over with
> wireless network.
>
> >
> > Speaking of presentations at the Plano Hamcom in two weeks... I
> > would really enjoy it if someone would talk about any digital video
> > links being set up and used either through modified 802.11 wireless
> > routers or other means. We have quite a vast network of digital
> > audio links built up between Echolink and IRLP but I have seen no
> > discussion about digital video networks over the ham bands or linked
> > to the internet.
> >
> > What's the cheapest way to send digital video using the latest off
> > the shelf hardware and software? I saw some video security camera
> > systems at Fry's that seemed to claim that you can monitor a camera
> > remotely over the internet. Can this be leveraged into Ham ATV use?
> > I have a Cannon power shot A530 camera that has a USB port and it can
> > record avi video as well as still shots. Is there any way I can use
> > this as my digital video source and route the video to my local ATV
> > repeater?
> >
> > It would be great if an ATV repeater in one city could be digital
> > video linked to other ATV repeaters in other parts of the country
> > with a system similar to what echolink does for audio.
> >
> > Let me know if you have any other ideas.
> >
> > Craig
> > wd5bdx
> >
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1275. Re: [ntms-hsmm] Re: Are any hams sending digital video? How about a Hamcom presentation?

Yahoo group: DAWG-HSMM
Date: 2008-06-02 02:16:51 UTC
From: KD5LWU Johnny
Topic: 1251 Message: 1275

I understand - we at our Yahoo group have been discussing ATV via WiFi for several years but have not actually made much movement. I would love to see ATV repeaters using both webcams, WiFi and the Internet. The difficulty is capturing the webcam video and converting to a digital form. I would love to see much much more ATV activity then what is out there as I think it is a modality that is great for public service. I bought one of the MFJ video chips and set it up as a mobile ATV camera several years ago and will be using it during our next field day event this month....it is running on UHF. 73 Johnny

John Barrett wrote:
>
> OK - I'll rephrase that - there isn't much ATV happening here in the DFW
> area.
>
> I originally wanted to set up ATV for my camera feed, but was convinced to
> go WiFi because there were not a lot of people with ATV hardware in the
> area.
>
> -----
>
> From: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> [mailto:ntms-hsmm@yahoogroups.com
> <mailto:ntms-hsmm%40yahoogroups.com>] On Behalf
> Of KD5LWU Johnny
> Sent: Sunday, June 01, 2008 8:59 PM
> To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> Subject: Re: [ntms-hsmm] Re: Are any hams sending digital video? How
> about a
> Hamcom presentation?
>
> There are lot's of ATV activity still going on I have done a cut and
> paste of a ATV newsletter of a group of folks that are streaming their
> ATV repeaters to the Internet. At my RFhamcams Yahoo group we talk a lot
> about this issue....here is the news letter.....
>
> *ATV Newsletter*
> *June 3, 2008 *Circulation 1100+
> Vol. 1 No. 43
>
> In this Edition:
> * World News this Week
> * BATC Press Release *Exciting News*
> * ATV Contacts Wanted

> * Another New Camstream K8DMR
> * San Bernardino Microwave Society Meeting
> * *Are Camstreams BAD? *
> * World Wide ATV Open House
> * Digital-ATV
> * Buy-Sell-Trade
> * ATV Guide
> * ATV Website Guide
> * Internet Viewers
> * This weeks Joke
> * Local News
> * Repeater Reports
> ** Oat Mtn. lost all audio.*
> * Repairs Needed
> * Letters to the Editor
> _____
> *World News this Week*
> _____
> *BATC Press Release*
> "British Amateur Television Club"
> *I received this email and it is exciting news for ATV.*
>
> Bryon
> The Streamer hardware should get installed tonight,
> I hope GB3BH soon gets linked in and then other follow
> Press release below cleared to use
> Trevor
>
> _www.batc.tv_ <http://www.batc. <http://www.batc.tv/
> <http://www.batc.tv/>> tv/> is the latest
> venture by the BATC
> into Television
> streaming. The site will bring streamed ATV to the internet and allow
> cross repeater working from its multi screen display. The site will also
> carry a library of ATV programmes and be a port for other ATV events
> that will be streamed from around the world.
>
> Some of you may have already seen Camstream and other repeater
> streaming, how will this site differ? The software has been written
> To allow multi user display, so that more than one repeater can be
> viewed at the same time allowing CQ ATV to be called on one repeater and
> others monitored for a duplex QSO. In the past using single repeater
> monitoring this has been possible but only a single repeater could be
> monitored and delay was a major problem.
>
> _www.batc.tv_ <http://www.batc. <http://www.batc.tv/
> <http://www.batc.tv/>> tv/> will be located
> in the Telehouse,
> Docklands data centre
> here in the UK and connected to a major internet pipe to minimise

> delays. The streamer will use flash media so the picture quality will be
> the very best that modern technology can provide at the present time.
>
> This is an expensive venture and although no charge will be made to ATV
> repeater groups for streaming we are looking for other users and
> sponsors to help make this site a place to visit. Ventures from other
> users are not restricted to ATV or even ham radio. If you would like to
> start your own streaming service then please contact us - we have the
> necessary space available.
>
> If you are a company and would like to help support this project, then
> for a small donation we can display and hyper link your logo from our
> front page.
>
> If you would like to stream your repeater or have a live event coming up
> you would like to stream or if you have library ATV material suitable
> for this site, please contact _info@... <mailto:_info%40batc.tv>
> <mailto:_info%40batc.tv> _
> <mailto:info@... <mailto:info%40batc.tv> <mailto:info%40batc.tv> >
> **********
> It is great to see that people are thinking BIG when it comes to ATV and
> not small.
> N6IFU
> **********
> *ATV Contacts Wanted*
> I received this email from Ian this week and it looks like ATV is
> getting bigger already.
>
> /hi all/
> /we are a small 2.4ghz active atv group in south yorkshire/
> /we transmit live atv from hams in their shack - car - bicycle -
> wheelchair or just walking/
> /we are looking for skeds via camstreams between 1400-2200 utc/
> /please email me if you would like an atv qso/
> //
> /73 Ian G3ZHI/
> //
> /_g3zhi@hotmail. <mailto:%2F_g3zhi%40hotmail.com> com_
> <mailto:g3zhi@hotmail. <mailto:g3zhi%40hotmail.com> com> /
> //
> /_http://www.qsl. <http://www.qsl.net/g3zhi_/
> <http://www.qsl.net/g3zhi_/>> net/g3zhi_// - many ham radio
> links/
> //
> /_http://www.ukirlp. <http://www.ukirlp.co.uk_/
> <http://www.ukirlp.co.uk_/>> co.uk_/ <http://www.ukirlp.
> <http://www.ukirlp.co.uk/ <http://www.ukirlp.co.uk/>> co.uk/>
> //
> /G4NJI IRLP 5200 Echolink 135909
> Rotherham simplex 145.2875mhz /

> //
> /Skype g3zhiian
> VoiP 642109/
> //
> /Mobile: 0798 473 2058
> ****************************/
> Ian helped me get the ATV Newsletter off the ground in the UK and I
> consider him a good friend. N6IFU
> **
> *Another New Camstream*
> I received an email from Ron, K8DMR and he wanted me to let you all know
> that he has establish yet another Canstream for ATV. His URL is
> _http://k8dmr. <http://k8dmr.camstreams.com_
> <http://k8dmr.camstreams.com_>> camstreams.com_ <http://k8dmr.
> <http://k8dmr.camstreams.com/ <http://k8dmr.camstreams.com/>>
> camstreams.com/>
> ***
> *San Bernardino Microwave Society Meeting*
> The SBMS meeting is this coming Thursday June the 5th.
> *The "Tech Talk" this month is: *
> *"Digital Signal Processing"*
> *Presented By Dr. Prentiss Robinson*
> SBMS Meetings are always worth watching.
> It starts at 7:00 PM PT and runs to 9:00 PM
>
> You can watch it via the *AC6RB Camstream*
> go to _www.ac6rb.com_ <http://www.ac6rb. <http://www.ac6rb.com/
> <http://www.ac6rb.com/>> com/> and
> click on option #1 or #2
>
> I will be logging all Internet Viewers and checking them in
> to the meeting via ATV
>
> I also saw W6KVC, Gary testing his ATV equipment this week. He has some
> new equipment for production and broadcast of the SBMS meeting. If you
> haven't watched the SBMS meeting it's a great example of excellent
> production quality due to Gary's hard work. And the SBMS should consider
> it's meetings and Tech Talk be added to the BATC video Library.
>
> *Are Camstreams BAD?*
>
> I have tried to think of any negative that might be associated with the
> use of Camstreams or Ustreams in conjunction with with ATV but I have
> never been able to think of one reason until I heard a Ham on my local
> network express his reason.
>
> He was telling another Ham that he thought the Camstream on our network
> was great for our Net but he thought it shouldn't be on 24/7. He went on
> to say it makes him feel like people were looking in his windows by
> having it on 24/7 and it should be turned off.

>
> I thought about his objection and it became clear to me that when you
> are on HF, anyone with a short wave radio can listen in. And on UHF and
> VHF anyone with a scanner can listen in. So what is he afraid of people
> seeing and hearing?
>
> If he is operating his ATV Station in accordance with FCC Laws why is he
> concerned about someone watching the camstream. It makes me feel that he
> has something to hide.
>
> I don't think he knows how silly his objection sounds and if he thinks
> people are looking in his windows he shouldn't turn on his
> ATV transmitter and no one will be able in look in his windows.
>
> I think this Ham's comments shouts out a good reason for having a
> Camstream on your ATV repeater. If someone is breaking the law we all
> should take steps to keep ATV above reproach by policing it ourselves.
>
> Last week the President of ATN-CA Don KE6BXT put a letter in the
> newsletter asking for anyone seeing objectionable language or images on
> the ATN-CA repeaters should contact him at _donhill@gmail.
> <mailto:_donhill%40gmail.com> com_
> <mailto:donhill@gmail. <mailto:donhill%40gmail.com> com> *Good for you
> Don!
> *I am sure Don and the
> club officers will keep your identity confidential.
> /_____/
> *World Wide ATV Open House*
> *Octorber 25, 2008*
> _____
> _____
> *Digital-ATV
> *
> No new news!
> _____
> *Buy-Sell-Trade *
> _____
> *For Sale:*
> Heatth Packit model HK 232.Fully functional, includes original manual. $
> Make offer.
> Contact KA6JJH. _oscar_@wairtime. <mailto:_oscar_%40wairtime.com> com_
> <mailto:oscar_@wairtime. <mailto:oscar_%40wairtime.com> com>
> **********
> *For Sale:*
> I have a couple new pf-0031 880-925 6 watt rf power module. I used them
> with my 900mhz transverter and atv brick.
> 73's n0mnb
> _nomnb@amsat. <mailto:_nomnb%40amsat.org> org_ <mailto:nomnb@amsat.
> <mailto:nomnb%40amsat.org> org>
> **********

> *For Sale:*
> *Amateur Television Repeater Controllers*
> ATVC-4 Plus is Intuitive Circuit's second generation Amateur Television
> repeater controller.
> Some of the many features that the ATVC-4 includes are:
> ** Five Video Input Sources*
> ** Four Mixable Audio Input Sources*
> ** Non-volatile Storage *
> ** DTMF Control*
> ** Beacon Mode*
> ** Robust CW Feedback*
> ** Password Protected*
> ** And Many More Features*
> For example a major new feature is four individual sync detection
> circuits allowing for true priority based ATV receiver switching.
> Only $349.00
> Contact: Intuitive Circuits, LLC 3928 Wardlow Ct., Troy, MI - (248)
> 588-4400
> To go right to the
> ATVC-4 _http://www.icircuit
> <http://www.icircuits.com/prod_atv_main.html_
> <http://www.icircuits.com/prod_atv_main.html_>>
> s.com/prod_atv_main.html_
> To go to the main page _http://www.icircuit <http://www.icircuits.com_
> <http://www.icircuits.com_>>
> s.com_
> <http://www.icircuit <http://www.icircuits.com/
> <http://www.icircuits.com/>> s.com/>
> **
> *For Sale*
> ATV Equipment for Sale
> 1 P.C. Electronics ATV Repeater Receiver ATVR-4 (434.00 and 439.25)
> [$149.00]
> 1 P.C. Electronics ATV Repeater Receiver ATVR-4 (439.25 LSB) [$149.00]
> 1 P.C. Electronics ATV Repeater Transmitter RTX-23 (1253.25) [$164.00]
> 1 P.C. Electronics ATV Crystal Downconverter TVCX-23 N (1253.25) [$55.00]
> 1 P.C. Electronics ATV Crystal Downconverter TVCX-23 BNC (1253.25)
> [$55.00]
> 1 Down East Microwave 23cm weatherproof LNA 23LNA [$60.00]
> 1 Elktronics board in an enclousre [$make offer]
> 2 Superscope digital quad splitter b/w rackmount VMS550mkll [$make offer]
> Filters
> 2 International Crystal Manufacturing (ICM) FL407 434.000 VSB Filter
> (tuned for 439.25 LSB) [$make offer]
> 2 Digital Communications, Inc. (DCI) 440-450 MHz Bandpass Filter
> DCI-445-10C 4 pole [$95.00]
> 2 Digital Communications, Inc. (DCI) 2 Meter Bandpass Filter DCI-146-4H
> 4 pole [$85.00]
> Antennas
> 1 Comet GP-20 1.2 GHz 14.9 dbi omni antenna (new) [$make offer]

> 1 Diamond U-300 440/1200 8.6 db/ 13.2 db omni antenna [$make offer]
> Radios
> Kenwood TM-441A [$175.00]
> Miscellaneous
> MFJ TNC MFJ-1274 [$make offer]
> Kantronics Packet Communicator 9612 Plus [$make offer]
> Mountain View Communications Technology GOES Weather Satellite
> Downconverter 1691-A [$make offer]
> Hamtronics NOAA Weather Satellite Receiver [$make offer]
> MultiFAX Weather Satellite PC card [$make offer]
> Kansas City Tracker PC card [$make offer]
> - Chris, N8UDK
> Contact: _chris@icircuits. <mailto:_chris%40icircuits.com> com_
> <mailto:chris@icircuits. <mailto:chris%40icircuits.com> com>
> **********
> *For Sale*
> The following is a list of items that I have. It is all "C" band
> equipment.
> 1. Polarizer (Chaparal Feed Horn)
> 2. LNA (it appears to be new) No Temp marked
> 3. Echostar Satellite receilver, Mod. JR200
> 4. Amplica Satellilte receiver, Mod. aCSR 1000
> Contact Spencer, N6IWY at _n6iwy@sbcglobal.
> <mailto:_n6iwy%40sbcglobal.net>
> net_ <mailto:n6iwy@sbcglobal. <mailto:n6iwy%40sbcglobal.net> net>
> **********
> *Looking For:*
> I am looking for a *military "Sound-Powered" handset.* Anyone that has
> one for sale, please
> contact Spencer, N6IWY at < _n6iwy@sbcglobal.
> <mailto:_n6iwy%40sbcglobal.net> net_
> <mailto:n6iwy@sbcglobal. <mailto:n6iwy%40sbcglobal.net> net> >.
> **********
> Anyone looking to buy, sell or trade ATV Equipment are welcomed to send
> your ad(s) for publication to:
> _atv-newsletter@ <mailto:_atv-newsletter%40hotmail.com> hotmail.com_
> <mailto:atv-newsletter@ <mailto:atv-newsletter%40hotmail.com> hotmail.com>
> _____
> *ATV Guide
> *Scheduled Program Guide for ATV
> *Monday:*
> SCART Net (GB3IV)
> _http://g7jtt. <http://g7jtt.camstreams.com_
> <http://g7jtt.camstreams.com_>> camstreams.com_ <http://g7jtt.
> <http://g7jtt.camstreams.com/ <http://g7jtt.camstreams.com/>>
> camstreams.com/>
> *Tuesday:*
> ATCO ATV Net
> Every Tuesday at 6:00 PM PT/9:00 PM ET
> * _http://wb8lga. <http://wb8lga.camstreams.com_

> <http://wb8lga.camstreams.com_>> camstreams.com_
> <http://wb8lga. <http://wb8lga.camstreams.com/
> <http://wb8lga.camstreams.com/>> camstreams.com/> *
> W7TED Repeaters Net Night
> Every Tuesday at 8:00 PM PT/11:00 PM ET
> _http://w7ted. <http://w7ted.camstreams.com_
> <http://w7ted.camstreams.com_>> camstreams.com_ <http://w7ted.
> <http://w7ted.camstreams.com/ <http://w7ted.camstreams.com/>>
> camstreams.com/>
> Torbay Amateur Television & Microwave Group
> Group Activity Night
> Every Tuesday at 2000 to 2200 UTC/1:00 PM PT/4:00 PM ET
> or _www.gb3tb.dyndns.tv_ <http://www.gb3tb.
> <http://www.gb3tb.dyndns.tv/ <http://www.gb3tb.dyndns.tv/>>
> dyndns.tv/>
> _http://www.ustream.
> <http://www.ustream.tv/channel/gb3tb-23cms-atv-repeater_
> <http://www.ustream.tv/channel/gb3tb-23cms-atv-repeater_>>
> tv/channel/gb3tb-23cms-atv-repeater_
> ATN-CA Net
> Every Tuesday at 8:00 PM PT/11:00 PM ET
> _www.ac6rb.com_ <http://www.ac6rb. <http://www.ac6rb.com/
> <http://www.ac6rb.com/>> com/> then click
> on option #1 or #2
> Backup Streaming Video Address for the Net
> _http://ustream. <http://ustream.tv/channel/n6gkb_
> <http://ustream.tv/channel/n6gkb_>> tv/channel/n6gkb_ via
> Snow Peak Repeater
> *Wednesday:*
> Chat Night, GB3ZZ
> Every Wednesday at 2100 UTC/1:00 PM PT/4:00 PM ET
> _http://gb3zz. <http://gb3zz.camstreams.com_
> <http://gb3zz.camstreams.com_>> camstreams.com_ <http://gb3zz.
> <http://gb3zz.camstreams.com/ <http://gb3zz.camstreams.com/>>
> camstreams.com/>
> CATS Net
> Every Wednesday at 6:00 PM PT/9:00 PM ET
> _http://kb3lnn. <http://kb3lnn.camstreams.com_
> <http://kb3lnn.camstreams.com_>> camstreams.com_
> <http://kb3lnn. <http://kb3lnn.camstreams.com/
> <http://kb3lnn.camstreams.com/>> camstreams.com/>
> *Thursday:*
> Torbay Amateur Television & Microwave Group
> Group Activity Night
> Every Thursday at 2000 to 2200 UTC/1:00 PM PT/4:00 PM ET
> _http://www.ustream.
> <http://www.ustream.tv/channel/gb3tb-23cms-atv-repeater_
> <http://www.ustream.tv/channel/gb3tb-23cms-atv-repeater_>>
> tv/channel/gb3tb-23cms-atv-repeater_
> ot _www.gb3tb.dyndns.tv_ <http://www.gb3tb.

> <http://www.gb3tb.dyndns.tv/ <http://www.gb3tb.dyndns.tv/>>
> dyndns.tv/>
> *San Bernardino Microwave Society Meeting
> Topic of Tech Talk: "Digital Signal Processing"*
> *Presented by Dr. Prentiss Robinson
> Thursday June 5th from 7:00 to 9:00 PM PT
> 10:00 to 12:00 Midnight ET
> * _www.ac6rb.com_ <http://www.ac6rb. <http://www.ac6rb.com/
> <http://www.ac6rb.com/>> com/> then
> click on option #1 or #2
> BRATS Net
> Every Thursday at 6:00 PM PT/9:00 PM ET
> _http://kb3lnn. <http://kb3lnn.camstreams.com_
> <http://kb3lnn.camstreams.com_>> camstreams.com_
> <http://kb3lnn. <http://kb3lnn.camstreams.com/
> <http://kb3lnn.camstreams.com/>> camstreams.com/>
> *Friday:*
> GB3GG, Grimsby Amateur Television Group Net
> Every Friday at 2100 ZULU
> 2:00 PM PT/5:00 PM ET
> _http://www.ustream. <http://www.ustream.tv/channel/gb3gg_
> <http://www.ustream.tv/channel/gb3gg_>>
> tv/channel/gb3gg_
> *Sunday:*
> Coffee Klatch
> Every Sunday at 9:00 AM PT/12:00 Noon ET
> _www.ac6rb.com_ <http://www.ac6rb. <http://www.ac6rb.com/
> <http://www.ac6rb.com/>> com/> then click
> on option #1 or #2
> International ATV Net
> Every Sunday at 12:00 Noon PT/3:00 PM ET
> _http://kb3lnn. <http://kb3lnn.camstreams.com_
> <http://kb3lnn.camstreams.com_>> camstreams.com_
> <http://kb3lnn. <http://kb3lnn.camstreams.com/
> <http://kb3lnn.camstreams.com/>> camstreams.com/>
> *Torbay Amateur Television & Microwave Group*
> Group Activity Night
> Every Sunday at 2000 to 2200 UTC/1:00 PM PT/4:00 PM ET
> _http://www.ustream.
> <http://www.ustream.tv/channel/gb3tb-23cms-atv-repeater_
> <http://www.ustream.tv/channel/gb3tb-23cms-atv-repeater_>>
> tv/channel/gb3tb-23cms-atv-repeater_
> or _www.gb3tb.dyndns.tv_ <http://www.gb3tb.
> <http://www.gb3tb.dyndns.tv/ <http://www.gb3tb.dyndns.tv/>>
> dyndns.tv/>
> MATS Net
> Every Sunday at 5:00 PM PT/8:00 PM ET
> _http://kb3lnn. <http://kb3lnn.camstreams.com_
> <http://kb3lnn.camstreams.com_>> camstreams.com_
> <http://kb3lnn. <http://kb3lnn.camstreams.com/

> <http://kb3lnn.camstreams.com/>> camstreams.com/>
>
> *ATV DXing*
> KA9UVY _http://ka9uvy. <http://ka9uvy.camstreams.com_
> <http://ka9uvy.camstreams.com_>> camstreams.com_
> <http://ka9uvy. <http://ka9uvy.camstreams.com/
> <http://ka9uvy.camstreams.com/>> camstreams.com/>
> KA9UVY, Bob is active mostly morning during weekdays
> And all hours weekends.
>
> Hepburn tropo forecast page:
> _http://www.dxinfoce <http://www.dxinfocenter.com/tropo.html_
> <http://www.dxinfocenter.com/tropo.html_>>
> nter.com/tropo.html_
>
> ATV DXers post their CQ's and Reports to the ATV logger page:
> _http://dxworld. <http://dxworld.com/atvlog.html_
> <http://dxworld.com/atvlog.html_>> com/atvlog.html_
>
> Hawaiian Beacons for the West Coast provided by. "KH6HME"
> 144.170 MHz
> 432.075 MHz
> 1296.34 MHz
>
> *Other Streaming ATV Videos*
> *K8DMR's Camstream*
> *_http://k8dmr. <http://k8dmr.camstreams.com_
> <http://k8dmr.camstreams.com_>> camstreams.com_
> <http://k8dmr. <http://k8dmr.camstreams.com/
> <http://k8dmr.camstreams.com/>> camstreams.com/> *
> **
> *WB8LGA's Camstream*
> *Links to other camstreams and Google ATV Maps*
> *And location to view the ATCO ATV Net*
> _http://wb8lga. <http://wb8lga.camstreams.com_
> <http://wb8lga.camstreams.com_>> camstreams.com_
> <http://wb8lga. <http://wb8lga.camstreams.com/
> <http://wb8lga.camstreams.com/>> camstreams.com/>
>
> Severnside Television Group
> _http://www.camsecur
> <http://www.camsecure.co.uk/Camsecure_Radio_Amateurs.html_
> <http://www.camsecure.co.uk/Camsecure_Radio_Amateurs.html_>>
> e.co.uk/Camsecure_Radio_Amateurs.html_
>
> N6GKB's Tower Cam in Yucca Valley, CA and back-up for the AC6RB
> streaming videos for the ATN.
> _http://ustream. <http://ustream.tv/channel/n6gkb_
> <http://ustream.tv/channel/n6gkb_>> tv/channel/n6gkb_
>

> If you have a scheduled Net or Event on your Streaming Video that you
> would like listed in the "ATV Guide" please send your information to:
> _atv-newsletter@ <mailto:_atv-newsletter%40hotmail.com> hotmail.com_
> <mailto:atv-newsletter@ <mailto:atv-newsletter%40hotmail.com> hotmail.com>
> _____
> *ATV WEBSITE GUIDE
> *_____
> Acres Electronics, ZL4TAO
> ATV Gear
> _www.acreselectronics.co.nz_ <http://www.acresele
> <http://www.acreselectronics.co.nz/
> <http://www.acreselectronics.co.nz/>> ctronics.co.nz/>
> Amateur Radio Victoria
> _www.users.amateurradio.com.au_ <http://www.users.
> <http://www.users.amateurradio.com.au/
> <http://www.users.amateurradio.com.au/>> amateurradio.com.au/>
> Amateur Radio Victoria/VK3FCE
> _www.amateurradio.com.au/vk3fce_ <http://www.amateurr
> <http://www.amateurradio.com.au/vk3fce
> <http://www.amateurradio.com.au/vk3fce>> adio.com.au/vk3fce>
> Associated Radio Amateurs of Long Beach, Inc.
> Club Station located on "Queen Mary" W6RO
> _http://www.aralb. <http://www.aralb.org_ <http://www.aralb.org_>>
> org_ <http://www.aralb.
> <http://www.aralb.org/ <http://www.aralb.org/>> org/>
> ATCO Newsletter
> _www.atco.tv_ <http://www.atco. <http://www.atco.tv/
> <http://www.atco.tv/>> tv/>
> Amateur Television Network
> _www.atn-tv.org_ <http://www.atn- <http://www.atn-tv.org/
> <http://www.atn-tv.org/>> tv.org/>
> Amateur Television Quarterly
> _http://www.hampubs. <http://www.hampubs.com_
> <http://www.hampubs.com_>> com_ <http://www.hampubs.
> <http://www.hampubs.com/ <http://www.hampubs.com/>> com/>
> *ATV Newsletter (Back Issues Only)*
> _http://www.qsl. <http://www.qsl.net/g3zhi/atvnews.htm_
> <http://www.qsl.net/g3zhi/atvnews.htm_>>
> net/g3zhi/atvnews.htm_
> Baltimore Radio Amateur Television Society (BRATS)
> _http://www.bratsatv <http://www.bratsatv.org_
> <http://www.bratsatv.org_>> .org_ <http://www.bratsatv
> <http://www.bratsatv.org/ <http://www.bratsatv.org/>> .org/>
> British Amateur Television Club Forums
> _http://www.g1fef. <http://www.g1fef.co.uk/forums_
> <http://www.g1fef.co.uk/forums_>> co.uk/forums_
> British Amateur Television Club Website (BATC)
> _http://batc. <http://batc.org.uk_ <http://batc.org.uk_>> org.uk_
> <http://batc.
> <http://batc.org.uk/ <http://batc.org.uk/>> org.uk/>

> Chesapeake Amateur Television Society (CATS)
> _http://mysite. <http://mysite.verizon/vzev3ql6/id.html_
> <http://mysite.verizon/vzev3ql6/id.html_>>
> verizon/vzev3ql6/id.html_
> CQ-TV Magazine, view back issues and the place to subscribe
> _www.cq-tv.com_ <http://www.cq- <http://www.cq-tv.com/
> <http://www.cq-tv.com/>> tv.com/>
> DATV/Digital Amateur Television Primer, G7LWT
> *And another location you can download bask issues
> of the "ATV Newsletter"
> * _www.g7lwt.com_ <http://www.g7lwt. <http://www.g7lwt.com/
> <http://www.g7lwt.com/>> com/>
> Dutch Digital Amateur Television Site
> _http://d-atv. <http://d-atv.com_ <http://d-atv.com_>> com_
> <http://d-atv. <http://d-atv.com/ <http://d-atv.com/>>
> com/>
> G3ZHI
> Many Ham Radio Links
> _http://www.qsl. <http://www.qsl.net/g3zhi_
> <http://www.qsl.net/g3zhi_>> net/g3zhi_
> GB3BH
> _http://gb3bh. <http://gb3bh.com_ <http://gb3bh.com_>> com_
> <http://gb3bh. <http://gb3bh.com/ <http://gb3bh.com/>>
> com/>
> GB3KM
> _http://myspace. <http://myspace.freeserve.com_
> <http://myspace.freeserve.com_>> freeserve.com_
> <http://myspace. <http://myspace.freeserve.com/
> <http://myspace.freeserve.com/>> freeserve.com/>
> GW6BWX's
> Amateur Television Electronics Projects ATV/DATV
> _http://www.atv- <http://www.atv-projects.com/index.html_
> <http://www.atv-projects.com/index.html_>>
> projects.com/index.html_
> Hamoholics, 2E0GYZ
> _www.2e0gyz.ning.com_ <http://www.2e0gyz. <http://www.2e0gyz.ning.com/
> <http://www.2e0gyz.ning.com/>>
> ning.com/>
> *Intuitive Circuits, LLC*
> *ATV Repeater Controllers* _http://www.icircuit
> <http://www.icircuits.com/prod_atv_main.html_
> <http://www.icircuits.com/prod_atv_main.html_>> s.com/prod_atv_main.html_
> *On-Screen ID Overlay and home page* _http://www.icircuit
> <http://www.icircuits.com_ <http://www.icircuits.com_>> s.com_
> <http://www.icircuit <http://www.icircuits.com/
> <http://www.icircuits.com/>> s.com/>
> K6BEN-ATV
> _http://www.batnet.
> <http://www.batnet.com/~mfwright.mfwright/k6ben.html_
> <http://www.batnet.com/%7Emfwright.mfwright/k6ben.html_>>

> com/~mfwright.mfwright/k6ben.html_
> <http://www.batnet.
> <http://www.batnet.com/%7Emfwright.mfwright/k6ben.html
> <http://www.batnet.com/%7Emfwright.mfwright/k6ben.html>>
> com/%7Emfwright.mfwright/k6ben.html>
> Las Vegas Radio Amateur Club
> _http://www.larac. <http://www.larac.org_ <http://www.larac.org_>>
> org_ <http://www.larac.
> <http://www.larac.org/ <http://www.larac.org/>> org/> and _www.hxo.com_
> <http://www.hxo. <http://www.hxo.com/ <http://www.hxo.com/>> com/>
> Microwave Experimenters Television System (METS)
> _http://qsl.net/ <http://qsl.net/kc6ccc/_ <http://qsl.net/kc6ccc/_>>
> kc6ccc/_
> Mini-kits Hi-Tech RF Kits and Components
> _http://www.minikits <http://www.minikits.com.au_
> <http://www.minikits.com.au_>> .com.au_
> <http://www.minikits <http://www.minikits.com.au/
> <http://www.minikits.com.au/>> .com.au/>
> MNFAT Minnesota Group/KB0OZN
> _www.Mnfat.net_ <http://www.mnfat. <http://www.mnfat.net/
> <http://www.mnfat.net/>> net/>
> N6HOG's Weather Web
> _http://n6hog. <http://n6hog.com_ <http://n6hog.com_>> com_
> <http://n6hog. <http://n6hog.com/ <http://n6hog.com/>>
> com/>
> San Bernardino Microwave Society (SBMS)
> _http://www.ham- <http://www.ham-radio.com/sbms_
> <http://www.ham-radio.com/sbms_>> radio.com/sbms_
> Severnside Television Group
> _http://www.camsecur
> <http://www.camsecure.co.uk/Camsecure_Radio_Amateurs.html_
> <http://www.camsecure.co.uk/Camsecure_Radio_Amateurs.html_>>
> e.co.uk/Camsecure_Radio_Amateurs.html_
> Southgate Amateur Radio Club
> _www.southgatearc.org_ <http://www.southgat
> <http://www.southgatearc.org/ <http://www.southgatearc.org/>>
> earc.org/>
> *WA6NUT's page*
> HF with FFT-TV
> _http://www.hamsdr.
> <http://www.hamsdr.com/personaldirectory.aspx?did=1139_
> <http://www.hamsdr.com/personaldirectory.aspx?did=1139_>>
> com/personaldirectory.aspx?did=1139_
> *World Wide ATV Open House*
> *October 25, 2008 For more info or to list your*
> *Repeater or Individul webstream.*
> * **_world-wide-
> <mailto:%2A%2A_world-wide-atv-repeater-network%40hotmail.com>
> atv-repeater-network@...
> <mailto:atv-repeater-network%40hotmail.com>_*

> <mailto:world-wide-atv-
> <mailto:world-wide-atv-repeater-network%40hotmail.com>
> repeater-network@... <mailto:repeater-network%40hotmail.com>>*
> *
> If you have an ATV Streaming Video or ATV website that you would like to
> have listed in the ATV Guide please send your info to:
> _atv-newsletter@ <mailto:_atv-newsletter%40hotmail.com> hotmail.com_
> <mailto:atv-newsletter@ <mailto:atv-newsletter%40hotmail.com> hotmail.com>
> _____
> *This weeks Joke: *
> *Two Cannibals are are eating a clown. One says to the other and says:
> "Does this taste funny to you?"*
> >From Art KC6UQH
> Got a joke? send it to _atv-newsletter@
> <mailto:_atv-newsletter%40hotmail.com> hotmail.com_
> <mailto:atv-newsletter@ <mailto:atv-newsletter%40hotmail.com> hotmail.com>
> _____
> *Internet Viewers
> *
> *Internet Check-ins/Viewers during the Net this week:*
>
> *K3ATI* Jim
>
> *W7TED* Ted
>
> *AF6AW* Mike
>
> *N3IUO* Randy
>
> *AE6QU * Ron
>
> *KD6WKS* Marty
>
> *KB6CJZ* Robbie
>
> *W6HUY* Wayne
>
> *WI0N* Ross
>
> *Thank you all for checking in and I hope to see you again next week. *
> **
> *All Internet Viewers are welcomed.*
>
> You are invited to check-in to the weekly ATN-CA Net every Tuesday at
> 8:00 PM PT. I am net control and I log on to the _www.ac6rb.com_
> <http://www.ac6rb. <http://www.ac6rb.com/ <http://www.ac6rb.com/>>
> com/> website about an hour
> before the net and chat
> with viewers. And I log in everyone so make a point to watch next Tuesday.
>

> AC6RB offers Camstream and Ustream streaming video from his website
> _www.ac6rb.com_ <http://www.ac6rb. <http://www.ac6rb.com/
> <http://www.ac6rb.com/>> com/>
>
> In the event that there is a problem with the _www.ac6rb.com_
> <http://www.ac6rb. <http://www.ac6rb.com/ <http://www.ac6rb.com/>>
> com/> camstream or if it is over
> loaded with viewers
> there is a backup streaming video. N6GKB, Keith has a Ustream from Snow
> Peak you can use. His address is : _http://ustream.
> <http://ustream.tv/channel/n6gkb_ <http://ustream.tv/channel/n6gkb_>>
> tv/channel/n6gkb_ =
> *Not Operational at this Time.
> *_____
> *Local News - Southern California*
> Check-ins for ATN-CA Net: Internet *(9)* 2 Meters/1.2 GHz *(4)* Video
> *(17)* Total *(30)*
> _____
> _____
> *Repeater Reports *for the ATN-CA Repeaters
> _____
> //
> *Oat Mtn.:* On Sat. I was having a QSO with KG6CO Ray at 2:30 PM and I
> lost his audio. When he sent it back to me and I keyed up my transmitter
> I couldn't hear myself coming back from Oat Mtn.. Later I was able to do
> some testing with Don KE6BXT when he logged into AC6RB's Camstream and I
> could explain what was going on. Oat and Santiago can see each others
> pictures just as it should be. Santiago does not receive any audio via
> the ATV audio carrier from Oat so they can't hear us. We are also unable
> to hear any audio via the ATV audio carrier from Oat as well as
> Santiago. N6IFU
> *Mt. Wilson:*
> *Snow Peak:*
> *Point Loma:*
> *Santa Barbara:*
> *Mt Potosi:*
> *Santiago Peak (network hub):*
> *Blueridge:*
> *_____*
> *Repairs Needed* for the ATN-CA Repeaters
> _____
> *Blueridge:*
> 1. Once Mt. Potosi has it's link operational Blueridge can reestablish
> it's receive link
> and make any adjustments needed.
> *Santa Barbara:*
> 1. Reestablish link to Santiago.
> *Mt. Wilson:*
> 1. Install 2.4 GHz Receiver ????
> 2. Build and install 2.4 GHz receiver for link from Blueridge (on hold

> 5/5/08)
> 3. Might need an additional port on the controller????
> *Oat Mtn.:*
> 1. Replace plastic wire ties with appropriate fasteners.
> 2. Tune 2.4 GHz link dipole for better SWR. It would be a good idea to
> sweep the
> 1200 MHz antenna at the same time as well.
> *Santiago Peak:*
> 1. Remove KC6UQH's call and Palomar from the W6ATN repeaters ID's (late
> spring
> early summer when the new controller is installed)
> 2. Look into weak signal getting into one of the inputs.*
> **Snow Peak:
> *1. Repair the Snow Peak Repeater/link.
> *Point Loma:*
> 1. Install link radios and establish link to Santiago. (Planned by April
> 29th)
> *Mount Potosi:*
> 1. Reestablish link to Blueridge
> _____
> *Letters to the Editor *
> If you have an opinion or viewpoint that you would like to express to
> the readers, please submit your letters to:
> _atv-newsletter@ <mailto:_atv-newsletter%40hotmail.com> hotmail.com_
> <mailto:atv-newsletter@ <mailto:atv-newsletter%40hotmail.com> hotmail.com>
> _____
> See you all on ATV,
> Bryon Foster
> N6IFU
> Editor and Publisher of the "ATV Newsletter"
>
> *Please send this newsletter to anyone you think will enjoy it.*
>
> If you wish to subscribe to the "ATV Newsletter", send me an email I
> will add you to my mailing list. The newsletter is FREE.
>
> *_atv-newsletter@ <mailto:%2A_atv-newsletter%40hotmail.com> hotmail.com_*
> <mailto:atv-newsletter@ <mailto:atv-newsletter%40hotmail.com> hotmail.com>
>
> If you are receiving the newsletter and would like it stopped, please
> send me an email as well.
>
> My "Mailing List" is not sold or shared.
>
> The "ATV Newsletter" *is not affiliated with "ATN". *But I am a paying
> member of ATN.
>
> Deadline for copy for the newsletter is 12:00 noon PT every Friday.
>
> ---

> Make every e-mail and IM count. Join the i'm Initiative from Microsoft.
> <http://im.live.
> <http://im.live.com/Messenger/IM/Join/Default.aspx?source=EML_WL_%20MakeCoun
> <http://im.live.com/Messenger/IM/Join/Default.aspx?source=EML_WL_%20MakeCoun>
> t> com/Messenger/IM/Join/Default.aspx?source=EML_WL_%20MakeCount>
>
> John Barrett wrote:
> >
> > I was using an analog PTZ camera with the Osprey video capture and
> the VLC
> > streaming server to deliver streaming video over WiFi at the Christmas
> > parade. The only real problem is the processing overhead to compress the
> > stream - 2ghz or better required to compress and stream from a single
> > computer. (I didn't have quite that much and ended up having to use 2
> > machines).. since the Osprey is NTSC input, you can use just about any
> > camera.
> >
> > The other problem was line of site to the far end :-) but the video
> > portion
> > worked great :-)
> >
> > Is anyone really doing ATV any more ?? I asked around a few months
> > back and
> > the impression I got is that ATV has pretty much died.
> >
> > Since ATV wants a standard NTSC input, the only way you are going to
> > link a
> > digital stream to an ATV transmitter is by using a video card with
> TV out,
> > probably as a secondary display on the computer connected to the
> net. The
> > Osprey card or any other supported by the VLC streaming encoder would do
> > fine for encoding the video - preferably one that has on board
> compression
> > to reduce the work load on the host computer.
> >
> > If you wanted to do a network like Echolink/IRLP, all that is really
> > needed
> > is a registration web server and some simple software that will keep the
> > registration server notified of active video sources running on the
> > machine
> > sourcing the video stream. At the "receiving" end, viewers could
> pick up a
> > stream by installing the VLC player and clicking a link on the
> website to
> > access the stream. Setting up the player to display on a TV-out card
> would
> > allow the video to be routed to an ATV transmitter.
> >
> > Using anything that doesn't put out standard NTSC presents a problem

> > delivering the video to an ATV transmitter.. most web cam type video
> > devices
> > have low resolution and don't look all that good when blown up to full
> > screen even at 640x480 TV resolution. However, if video quality
> isn't that
> > much of an issue, then if there is a way to capture to a stream from
> your
> > camera, rather than to a file, it can be made to work. Also note
> that many
> > web cam type devices do not output at full 30 frames per second, but
> that
> > doesn't matter much once the stream is fed to a TV-out card.
> >
> > VLC player and server are available free for most any platform out
> there -
> > Winblows, McCrap, Limpux :-)
> >
> > Hope that gives you a few ideas :-)
> >
> > _____
> >
> > From: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> <mailto:ntms-hsmm%40yahoogroups.com>
> > [mailto:ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> > <mailto:ntms-hsmm%40yahoogroups.com>] On Behalf
> > Of Steve
> > Sent: Saturday, May 31, 2008 11:27 PM
> > To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> <mailto:ntms-hsmm%40yahoogroups.com>
> > Subject: [ntms-hsmm] Re: Are any hams sending digital video? How about a
> > Hamcom presentation?
> >
> > I have used the D-Link DCS-(G)900 IP camera over 802.11. I chose that
> > camera because there is Linux software for it, in addition to it's own
> > built in web-server/viewer.
> > http://panteltje. <http://panteltje.
> <http://panteltje.com/panteltje/mcamip/
> <http://panteltje.com/panteltje/mcamip/>> com/panteltje/mcamip/
> > <http://panteltje. <http://panteltje.com/panteltje/mcamip/
> <http://panteltje.com/panteltje/mcamip/>>
> com/panteltje/mcamip/>>
> > com/panteltje/mcamip/
> >
> > I successfully used this to monitor one of the our club sites that we
> > have soda machine at. We had some vandalism going on at that site, so
> > I put the D-Link camera up and would watch it from home over with
> > wireless network.
> >
> > >
> > > Speaking of presentations at the Plano Hamcom in two weeks... I

> > > would really enjoy it if someone would talk about any digital video
> > > links being set up and used either through modified 802.11 wireless
> > > routers or other means. We have quite a vast network of digital
> > > audio links built up between Echolink and IRLP but I have seen no
> > > discussion about digital video networks over the ham bands or linked
> > > to the internet.
> > >
> > > What's the cheapest way to send digital video using the latest off
> > > the shelf hardware and software? I saw some video security camera
> > > systems at Fry's that seemed to claim that you can monitor a camera
> > > remotely over the internet. Can this be leveraged into Ham ATV use?
> > > I have a Cannon power shot A530 camera that has a USB port and it can
> > > record avi video as well as still shots. Is there any way I can use
> > > this as my digital video source and route the video to my local ATV
> > > repeater?
> > >
> > > It would be great if an ATV repeater in one city could be digital
> > > video linked to other ATV repeaters in other parts of the country
> > > with a system similar to what echolink does for audio.
> > >
> > > Let me know if you have any other ideas.
> > >
> > > Craig
> > > wd5bdx
> > >
> >
> > [Non-text portions of this message have been removed]
> >
> >
>
> [Non-text portions of this message have been removed]
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

1276. Re: [ntms-hsmm] Re: Are any hams sending digital video? How about a Hamcom presentation?

Yahoo group: DAWG-HSMM
Date: 2008-06-02 02:17:44 UTC
From: KD5LWU Johnny
Topic: 1251 Message: 1276

I understand - we at our Yahoo group have been discussing ATV via WiFi for several years but have not actually made much movement. I would love to see ATV repeaters using both webcams, WiFi and the Internet. The difficulty is capturing the webcam video and converting to a digital form. I would love to see much much more ATV activity then what is out there as I think it is a modality that is great for public service. I bought one of the MFJ video chips and set it up as a mobile ATV camera several years ago and will be using it during our next field day event this month....it is running on UHF. 73 Johnny

John Barrett wrote:
>
> OK - I'll rephrase that - there isn't much ATV happening here in the DFW
> area.
>
> I originally wanted to set up ATV for my camera feed, but was convinced to
> go WiFi because there were not a lot of people with ATV hardware in the
> area.
>
> _____
>

[Non-text portions of this message have been removed]

1277. (no subject)

Yahoo group: DAWG-HSMM
Date: 2008-07-21 22:10:24 UTC
From: John Champa
Topic: 1277 Message: 1277

Greetings!I am changing over my e-mail services to Google!

If you no longer wish to receive e-mails from me, please let me know so I can remove your name from my e-mailing list.

Thanks!

John Champa, K8OCL

http://forearthonline.com/300mpg/
http://video.google.com/googleplayer.swf?docid=6529419636244970910&hl=en
If you think education
is expensive, try ignorance.

[Non-text portions of this message have been removed]

1278. extend range on WIFI

Yahoo group: DAWG-HSMM
Date: 2008-07-21 23:24:26 UTC
From: icra@galaxynet.com
Topic: 1277 Message: 1278

OK....let us see if there really is anyone around on this list....

Setting up a WIFI network for another ham and his wife

Router is on one end of the house, wifes computer is on the other

Got his laptop working on it just fine (same room...real hard to do), got the card working on
the wifes computer....not enough signal strength to link with the router....

Will be trying to re-locate the router by a window that looks towards the room with the wifes
computer

Was thinking of trying a sort of passive repeater system...couple of the pringles can antennas
linked with some RG-59 coax I have laying around....would it work or just be a waste of time?

Mel
N7OKL

1279. Re: [ntms-hsmm] extend range on WIFI

Yahoo group: DAWG-HSMM
Date: 2008-07-22 00:00:55 UTC
From: Kipton Moravec
Topic: 1277 Message: 1279

On Mon, 2008-07-21 at 16:24 -0700, icra@... wrote:
> OK....let us see if there really is anyone around on this list....
>
> Setting up a WIFI network for another ham and his wife
>
> Router is on one end of the house, wifes computer is on the other
>
> Got his laptop working on it just fine (same room...real hard to do), got the card working on
> the wifes computer....not enough signal strength to link with the router....
>
> Will be trying to re-locate the router by a window that looks towards the room with the wifes
> computer
>
> Was thinking of trying a sort of passive repeater system...couple of the pringles can antennas
> linked with some RG-59 coax I have laying around....would it work or just be a waste of time?
>
> Mel
> N7OKL
>
>

A passive antenna would be a waste of time.

A couple of things to try.

Get the router as high as possible in the room. All objects between it and the wife's computer attenuate the signal. Usually furniture and people are in the way. I put my house router on top of the entertainment center in the center of the house. It is over 6' off the ground and I can hit it from everywhere in the house.

☐Try a different channel. Most routers default to channel 6. If all your neighbors are also on channel 6 you may have a lot of noise. Try channel 1 or 11. (Channels 1, 6, and 11 do not overlap)

Experiment with the router position. The Linksys routers have two antennas, because sometimes a movement of 6" is enough to make a difference.

Get a directional antenna. 3 db is twice the range. 15 db directional antennas are pretty cheap. (Make sure the polarity is setup the same.) I do not know what the gain of a pringles can antenna is, but if

everything else does not work you can try it before you buy a directional antenna.

We have gotten 10 miles reliability with a pair (19db and 24 db) of directional antennas.

Let is know your progress.

Kip
--
Kipton Moravec AE5IB
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1280. Re: [ntms-hsmm] extend range on WIFI

Yahoo group: DAWG-HSMM
Date: 2008-07-22 00:32:44 UTC
From: icra@galaxynet.com
Topic: 1277 Message: 1280

> Try a different channel. Most routers default to channel 6. If
> all your
> neighbors are also on channel 6 you may have a lot of noise. Try
> channel
> 1 or 11. (Channels 1, 6, and 11 do not overlap)
>
This one defaulted to channel 1

He lives on a 10 acre lot...none of those living around him have WIFI

It is a large house, 2 car garage, then his office, shop, and shack....lots of walls to go through....at best, 5 walls to go though (one of them length wise)...why I was thinking the passive repeater might work better...could put an antenna by the window of her office, run coax along the eaves along the back of the house, put the other antenna outside the window of his office

> Experiment with the router position. The Linksys routers have two
> antennas, because sometimes a movement of 6" is enough to make a
> difference.
>
That is the next step....he would really like to put it in the untiliies closet, but that dropped a
marginal signal down to no signal. His office has a window that faces along the back of the house...soon as we make up a CAT-5 cable from the closet to the window, will try it there

> Get a directional antenna. 3 db is twice the range. 15 db
> directional
> antennas are pretty cheap. (Make sure the polarity is setup the
> same.) I
> do not know what the gain of a pringles can antenna is, but if
> everything else does not work you can try it before you buy a
> directional antenna.
>
Wife does not want cables in her office and the router he picked up does not have external antenna or jacks (part of the problem and part of why I was thinking of a passive repeater)

Lots of fun working within some one else's limits....If it was me, I would have just gone with a
wired network in this house (even with almost no way to run the cable). At least he went with
802.11N devices....

Will see if moving the router fixes the situation. If not, may be able to talk him into buying
another router (this time, with external antenna/jack that would allow for a directional antenna)

Mel
N7OKL

1281. Re: [ntms-hsmm] extend range on WIFI

Yahoo group: DAWG-HSMM
Date: 2008-07-22 04:28:52 UTC
From: Kipton Moravec
Topic: 1277 Message: 1281

Need a router with an external antenna.

Other option is to go high. If he lets you run a cable to the attic you may be able to get the number of walls the signal has to go through lowered.

There were problems with N a while back. Probably fixed by now. We sometimes switch to 802.11b to get better range. It is slower but has better sensitivity.

Kip

On Mon, 2008-07-21 at 17:32 -0700, icra@... wrote:
> > Try a different channel. Most routers default to channel 6. If
> > all your
> > neighbors are also on channel 6 you may have a lot of noise. Try
> > channel
> > 1 or 11. (Channels 1, 6, and 11 do not overlap)
> >
> This one defaulted to channel 1
>
> He lives on a 10 acre lot...none of those living around him have WIFI
>
> It is a large house, 2 car garage, then his office, shop, and shack....lots of walls to go
> through....at best, 5 walls to go though (one of them length wise)...why I was thinking the
> passive repeater might work better...could put an antenna by the window of her office, run
> coax along the eaves along the back of the house, put the other antenna outside the window
> of his office
>
> > Experiment with the router position. The Linksys routers have two
> > antennas, because sometimes a movement of 6" is enough to make a
> > difference.
> >
> That is the next step....he would really like to put it in the untiliies closet, but that dropped a
> marginal signal down to no signal. His office has a window that faces along the back of the
> house...soon as we make up a CAT-5 cable from the closet to the window, will try it there
>
> > Get a directional antenna. 3 db is twice the range. 15 db
> > directional
> > antennas are pretty cheap. (Make sure the polarity is setup the

> > same.) I
> > do not know what the gain of a pringles can antenna is, but if
> > everything else does not work you can try it before you buy a
> > directional antenna.
> >
> Wife does not want cables in her office and the router he picked up does not have external
> antenna or jacks (part of the problem and part of why I was thinking of a passive repeater)
>
> Lots of fun working within some one else's limits....If it was me, I would have just gone with a
> wired network in this house (even with almost no way to run the cable). At least he went with
> 802.11N devices....
>
> Will see if moving the router fixes the situation. If not, may be able to talk him into buying
> another router (this time, with external antenna/jack that would allow for a directional
> antenna)
>
> Mel
> N7OKL
>
> ---
>
> Yahoo! Groups Links
>
>
>
>
--
Kipton Moravec AE5IB
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1282. Re: [ntms-hsmm] extend range on WIFI

Yahoo group: DAWG-HSMM
Date: 2008-07-22 05:23:50 UTC
From: Mars Reed
Topic: 1277 Message: 1282

What about the walls of the house?

Is there foil-backing on the insulation?

Is everything on a single floor?

Kipton Moravec wrote:
>
> Need a router with an external antenna.
>
> Other option is to go high. If he lets you run a cable to the attic you
> may be able to get the number of walls the signal has to go through
> lowered.
>
> There were problems with N a while back. Probably fixed by now. We
> sometimes switch to 802.11b to get better range. It is slower but has
> better sensitivity.
>
> Kip
>
> On Mon, 2008-07-21 at 17:32 -0700, icra@...
> <mailto:icra%40galaxynet.com> wrote:
> > > Try a different channel. Most routers default to channel 6. If
> > > all your
> > > neighbors are also on channel 6 you may have a lot of noise. Try
> > > channel
> > > 1 or 11. (Channels 1, 6, and 11 do not overlap)
> > >
> > This one defaulted to channel 1
> >
> > He lives on a 10 acre lot...none of those living around him have WIFI
> >
> > It is a large house, 2 car garage, then his office, shop, and
> shack....lots of walls to go
> > through....at best, 5 walls to go though (one of them length
> wise)...why I was thinking the
> > passive repeater might work better...could put an antenna by the
> window of her office, run
> > coax along the eaves along the back of the house, put the other
> antenna outside the window
> > of his office
> >
> > > Experiment with the router position. The Linksys routers have two
> > > antennas, because sometimes a movement of 6" is enough to make a
> > > difference.
> > >

> > That is the next step....he would really like to put it in the
> untiliies closet, but that dropped a
> > marginal signal down to no signal. His office has a window that
> faces along the back of the
> > house...soon as we make up a CAT-5 cable from the closet to the
> window, will try it there
> >
> > > Get a directional antenna. 3 db is twice the range. 15 db
> > > directional
> > > antennas are pretty cheap. (Make sure the polarity is setup the
> > > same.) I
> > > do not know what the gain of a pringles can antenna is, but if
> > > everything else does not work you can try it before you buy a
> > > directional antenna.
> > >
> > Wife does not want cables in her office and the router he picked up
> does not have external
> > antenna or jacks (part of the problem and part of why I was thinking
> of a passive repeater)
> >
> > Lots of fun working within some one else's limits....If it was me, I
> would have just gone with a
> > wired network in this house (even with almost no way to run the
> cable). At least he went with
> > 802.11N devices....
> >
> > Will see if moving the router fixes the situation. If not, may be
> able to talk him into buying
> > another router (this time, with external antenna/jack that would
> allow for a directional
> > antenna)
> >
> > Mel
> > N7OKL
> >
> > ---
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> --
> Kipton Moravec AE5IB
> "Always do right; this will gratify some people and astonish the rest."
> --Mark Twain
>
>

1283. Re: [ntms-hsmm] extend range on WIFI

Yahoo group: DAWG-HSMM
Date: 2008-07-22 05:37:36 UTC
From: icra@galaxynet.com
Topic: 1277 Message: 1283

> What about the walls of the house?
>
> Is there foil-backing on the insulation?
>
> Is everything on a single floor?
>
Single story house

Know there is foil on the exterior walls.....not sure what all garbage is in the interior walls

And I was wrong on the number of walls to go through....there are 7....one of them length wise, 2 are in the garage and have foil backing on the insulation.....

Tomorrow or Wed we will move the router by the window and see what that gets us

Mel
N7OKL

1284. Re: [ntms-hsmm] extend range on WIFI

Yahoo group: DAWG-HSMM
Date: 2008-07-22 11:46:36 UTC
From: Bob Diepenbrock
Topic: 1277 Message: 1284

Well,

Two ideas come to mind.

1. Relocate the wireless access point closer to where it's being used. Moving it to a central closet or something should be fairly easy if you are not afraid of pulling a bit of CAT5 around the house. I have 2 access points that pretty much cover my whole lot using this technique.

2. Get an active repeater and put that closer to where you want to use the wireless link. D-Link sells them I believe for around $100. You just need a place to plug it in after you configure it that is within rang of the primary router.

I'd generally stay away from antennas with gain or any long coax runs. The antennas might work, but they may violate Part 15 rules for signal strength. Coax runs are very lossy at this frequency unless you use some really expensive stuff and if you can pull coax, Cat 5 would be easier and cheaper.

-= Bob =-

----- Original Message ----
From: "icra@..." <icra@...>
To: ntms-hsmm@yahoogroups.com
Sent: Monday, July 21, 2008 6:24:26 PM
Subject: [ntms-hsmm] extend range on WIFI

OK....let us see if there really is anyone around on this list....

Setting up a WIFI network for another ham and his wife

Router is on one end of the house, wifes computer is on the other

Got his laptop working on it just fine (same room...real hard to do), got the card working on
the wifes computer.... not enough signal strength to link with the router....

Will be trying to re-locate the router by a window that looks towards the room with the wifes
computer

Was thinking of trying a sort of passive repeater system...couple of the pringles can antennas
linked with some RG-59 coax I have laying around....would it work or just be a waste of time?

Mel
N7OKL

[Non-text portions of this message have been removed]

1285. hsmm-voip???

Yahoo group: DAWG-HSMM
Date: 2008-07-22 18:23:58 UTC
From: Brian R. Chapman
Topic: 1285 Message: 1285

What program might one use to have voice comms on a 2.4ghz ham wifi stand alone network not connected to the internet??? Brian nb9e

1286. Re: [ntms-hsmm] hsmm-voip???

Yahoo group: DAWG-HSMM
Date: 2008-07-22 18:47:58 UTC
From: John Barrett
Topic: 1285 Message: 1286

Asterisk PBX http://www.asterisk.org/about

besides standard VoIP phone support for stand alone phones and PC phone software, they have recently added some features to support repeater linking.

----- Original Message -----
From: Brian R. Chapman
To: ntms-hsmm@yahoogroups.com
Sent: Tuesday, July 22, 2008 1:23 PM
Subject: [ntms-hsmm] hsmm-voip???

What program might one use to have voice comms on a 2.4ghz ham
wifi stand alone network not connected to the internet??? Brian nb9e

[Non-text portions of this message have been removed]

1287. Call for Papers--2008 ARRL/TAPR Digital Communications Conference

Yahoo group: DAWG-HSMM
Date: 2008-07-22 18:57:47 UTC
From: Mark Thompson
Topic: 1287 Message: 1287

Call for Papers--2008 ARRL/TAPR Digital Communications Conference
    Posted by: "Ford, Steve, WB8IMY" sford@...
    Date: Tue Jul 15, 2008 6:17 am ((PDT))

Technical papers are solicited for presentation at the 27th Annual ARRL
and TAPR Digital Communications Conference to be held September 26-28,
2008 in Chicago, Illinois. http://www.tapr.org/dcc.html

These papers will also be published in the Conference Proceedings
(you do NOT need to attend the conference to have your paper included in the Proceedings).

The submission deadline is July 31.

Please send papers to:
Maty Weinberg
ARRL
225 Main St
Newington, CT 06111

or you can make your submission via e-mail to: maty@...

Papers will be published exactly as submitted and authors will retain all rights.

73 . . . Steve, WB8IMY
ARRL

[Non-text portions of this message have been removed]

1288. APR PSR Journal Deadline: August 1

Yahoo group: DAWG-HSMM
Date: 2008-07-22 18:58:45 UTC
From: Mark Thompson
Topic: 1288 Message: 1288

-----Original Message-----
From: Stan Horzepa <stanzepa@...>
To: tapr-announce@...
Sent: Fri, 18 Jul 2008 5:55 pm
Subject: PSR Deadline: August 1

Just a reminder for anyone writing something for the next issue of TAPR's quarterly newsletter, Packet Status Register (PSR), that the deadline is August 1.

73,

Stan, WA1LOU
PSR Editor

Call for Papers--2008 ARRL/TAPR Digital Communications Conference
    Posted by: "Ford, Steve, WB8IMY" sford@arrl.org
    Date: Tue Jul 15, 2008 6:17 am ((PDT))

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Please send papers to:
Maty Weinberg
ARRL
225 Main St
Newington, CT 06111

or you can make your submission via e-mail to: maty@arrl.org

Papers will be published exactly as submitted and authors will retain all rights.

73 . . . Steve, WB8IMY
ARRL

[Non-text portions of this message have been removed]

1289. New file uploaded to ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2008-07-22 19:10:47 UTC
From: ntms-hsmm@yahoogroups.com
Topic: 38 Message: 1289

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the ntms-hsmm
group.

File : /2008 ARRL TAPR DCC Ad.pdf
Uploaded by : wb9qzb <wb9qzb@...>
Description : ARRL / TAPR DCC (Digital Communications Conference), Chicago, September 26 - 28, 2008

You can access this file at the URL:
http://groups.yahoo.com/group/ntms-hsmm/files/2008%20ARRL%20TAPR%20DCC%20Ad.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles

Regards,

wb9qzb <wb9qzb@...>

1290. Re: [ntms-hsmm] hsmm-voip???

Yahoo group: DAWG-HSMM
Date: 2008-07-22 19:29:35 UTC
From: Mars Reed
Topic: 1285 Message: 1290

Definitely Asterisk is extremely good, there's couple of iso images that are ready to go.

Take a look at Trixbox,

EasyVoxBox

and the new ACID (Allstar Centos Installation Disk).

EasyVoxBox and ACID both have the necessary components to go online quickly with radio and voice connectivitiy.

A good Softphone include:

X-Lite

and

Zoiper.

A good "console to console" voice package is IP-Sound (don't know if it is still available on the Internet or not).

Mars Reed, N?PCO
www.alertradio.net
www.asteriskradio.net

Brian R. Chapman wrote:
>
> What program might one use to have voice comms on a 2.4ghz ham
> wifi stand alone network not connected to the internet??? Brian nb9e
>
>

1291. Re: hsmm-voip???

Yahoo group: DAWG-HSMM
Date: 2008-07-29 23:40:50 UTC
From: Steve
Topic: 1285 Message: 1291

--- In ntms-hsmm@yahoogroups.com, "Brian R. Chapman" <nb9e@...> wrote:
>
> What program might one use to have voice comms on a 2.4ghz ham
> wifi stand alone network not connected to the internet??? Brian nb9e
>

Program? How about speakfreely.
For a platform try Asterisk
Protocols of my own preference are SIP and IAX.

If you wanted an integrated device, look into a Wifi Phone.

Those are my suggestions

1292. Re: hsmm-voip???

Yahoo group: DAWG-HSMM
Date: 2008-07-31 18:42:24 UTC
From: Brian R. Chapman
Topic: 1285 Message: 1292

What we would like to do is use a Linksys router/AP on a mountain top tower as basically a repater but on wifi 802.11(not connected to the internet)to allow voip around the local area for hams wishing to experiment!!! How exactly step by step would this be accomplished as we are not IT experts? Thanks, Brian nb9e

1293. Re: [ntms-hsmm] Re: hsmm-voip???

Yahoo group: DAWG-HSMM
Date: 2008-07-31 19:27:14 UTC
From: John Barrett
Topic: 1285 Message: 1293

OK -- this is off the top of my head -- so it wont be complete, but enough to get started

Set up linksys on and oddball subnet (192.168.100 maybe) with DHCP and encryption. I personally reset the DHCP range to 100-200 on mine to leave space at the bottom for servers. If you are using a flashed Linksys (DDWRT, OpenWRT, whatever) Configure to redirect web traffic to the asterix server.

Configure server with wireless card and directional antenna, install one of the asterix prebuilts, setup with static IP 192.168.100.2, and if you are redirecting web traffic, install a web server and set up pages to download the client software and any other instructions needed. You can use a web server integrated on the router if there is enough memory for the downloads.

This is the part where I'm floating ideas :) you are going to need either a manual process or a web application to associate client applications/devices with a phone number/extension, and you'll need a directory of assigned numbers. I havent worked with Asterix enough to know how easy or hard it will be to do a web app to configure new phones. The manual process would need to be a web page that requests name/callsign/device id info/username/password and stores that data so you can configure asterix and update the directory. The web app could collect the same data and do the config/update automatically if desired so users would not have to wait on a manual update.

Once a device is configured as a phone in asterix and the device itself is configured to find the asterix server, you should be good to go to make calls.. since the asterix server is not located with the router, you can even look at giving it a real phone line or internet phone connection and use it like a phone patch -- HamPBX :)

After testing all this in the shack, install the router on the the mountain, hand out the encryption keys to your friends/club/whatever and go to town :)

Some interesting side features you could add on would be radar feeds for storm spotters, discussion forums for user support, anything that could be accessed off the internet and fed out via the web server installed on the asterix server.

If you dont have anyone locally up to speed on web scripting, I'd be interested in helping out with the server if you dont mind setting up so I can remotely access the machine to do the work.

----- Original Message -----
From: Brian R. Chapman
To: ntms-hsmm@yahoogroups.com
Sent: Thursday, July 31, 2008 1:42 PM
Subject: [ntms-hsmm] Re: hsmm-voip???

What we would like to do is use a Linksys router/AP on a mountain
top tower as basically a repater but on wifi 802.11(not connected to
the internet)to allow voip around the local area for hams wishing to

experiment!!! How exactly step by step would this be accomplished as we are not IT experts? Thanks, Brian nb9e

[Non-text portions of this message have been removed]

1294. HSMM

Yahoo group: DAWG-HSMM
Date: 2008-08-07 21:40:10 UTC
From: John Champa
Topic: 1294 Message: 1294

Tom,

You should check out the North Texas Microwave Society's HSMM Working Group:

ntms-hsmm@yahoogroups.com

They do this sort of thing (802.xx modulation under Part 97) on a full time basis,
and can make many informed recommendations.

73,
John K8OCL

[Non-text portions of this message have been removed]

1295. Perseid Meteor Shower Peaks Tuesday Morning

Yahoo group: DAWG-HSMM
Date: 2008-08-12 00:51:05 UTC
From: Mark Thompson
Topic: 1295 Message: 1295

Perseid Meteor Shower Peaks Tuesday Morning

http://news.yahoo.com/s/space/20080811/sc_space/perseidmeteorshowerpeakstuesdaymorning

[Non-text portions of this message have been removed]

1296. Summer Edition of CQ VHF

Yahoo group: DAWG-HSMM
Date: 2008-08-14 20:16:40 UTC
From: John Champa
Topic: 1235 Message: 1296

Extensive info and pictures of HSMM activity and local events thanks to Kipton Moravec.John Champa, K8OCL

To: ntms-hsmm@yahoogroups.comFrom: kilgore1317@...: Sun, 4 May 2008 08:47:15 -0500Subject: [ntms-hsmm] 400mw ERP USB Antenna

Look at this wifi solution for RV's'http://www.radiolabs.com/products/wireless/waverv.phpDoug KD5OUG[Non-text portions of this message have been removed]

_____
Your PC, mobile phone, and online services work together like never before.
http://clk.atdmt.com/MRT/go/108587394/direct/01/

[Non-text portions of this message have been removed]

1297. Digital Communication Conference, 9/26-28, Chicago - Register by 9/1 & Save

Yahoo group: DAWG-HSMM
Date: 2008-08-19 03:41:50 UTC
From: Mark Thompson
Topic: 1297 Message: 1297

The ARRL/TAPR DCC (Digital Communications Conference) is being held in Chicago on September 26 - 28, 2008.

The DCC will be at the Elk Grove Village Holiday Inn located in Chicago's northwest suburbs near O'Hare airport with a free airport to hotel shuttle and easily accessible from major interstate highways.

The DCC is the premiere, national, annual digital ham radio conference covering ALL the Digital Voice & Data technologies from HF to Microwaves.

There will be BOTH Technical & Introductory presentations covering all levels of experience with the digital modes and also an ARRL forum.

This year for the first time at the DCC there will be a D-STAR Friday Night event. We plan to have innovators, pioneers & leaders in D-STAR digital voice & data technology available to present and take your questions.

Icom will be at the DCC and TAPR plans to have it's 70cm & 23cm D-STAR digital voice & data repeaters operating at the DCC connected to the internet gateway.

You can get more information about the DCC at: http://www.tapr.org/dcc.html
A DCC advertisement is attached that can be published in your local club newsletters.

Reigster before September 1st & save $10 on your registration fee.

You can register at:
https://www.tapr.org/dccregistration.php
Look forward to seeing everyone at the DCC.
73, Mark, WB9QZB
Chicago, IL

Join Digital Ham Group
http://groups.yahoo.com/group/illinoisdigitalham/
Covers All Digital Voice & Data Modes - Members from All Areas Welcome

[Non-text portions of this message have been removed]

1298. balloon wifi

Yahoo group: DAWG-HSMM
Date: 2008-08-21 22:12:52 UTC
From: Wes Johnston, AI4PX
Topic: 1298 Message: 1298

http://www.goodgearguide.com.au/videoview/257756

interesting video link.... documents the fact, not the techhie.... a guy put an ATV camera and wifi access point on a tethered balloon to sniff with netstumbler.
Wes

Our lives begin to end the day we become silent about things that matter

[Non-text portions of this message have been removed]

1299. A mesh Network

Yahoo group: DAWG-HSMM
Date: 2008-09-05 18:01:40 UTC
From: Kilgore
Topic: 1299 Message: 1299

I happened upon this paper on Mesh Networking. It's a long URL so
you'll have to cut and paste to your browser.

http://download.berlin.freifunk.net/ebooks/Building_a_Rural_Wireless_Mesh_Network_-_A_DIY_Guide_v0.7_65.pdf

Has any ham implemented something similar?

Doug Kilgore KD5OUG

1300. Re: [ntms-hsmm] A mesh Network

Yahoo group: DAWG-HSMM
Date: 2008-09-05 19:28:23 UTC
From: Glenn Currie
Topic: 1299 Message: 1300

Yes,

The Austin HSMM SIG has developed a similar system.

-Glenn
kd5mfw@...

Kilgore <kilgore1317@...> wrote: I happened upon this paper on Mesh Networking. It's a long URL so
you'll have to cut and paste to your browser.

http://download.berlin.freifunk.net/ebooks/Building_a_Rural_Wireless_Mesh_Network_-_A_DIY_Guide_v0.7_65.pdf

Has any ham implemented something similar?

Doug Kilgore KD5OUG

[Non-text portions of this message have been removed]

1301. Re: [ntms-hsmm] A mesh Network

Yahoo group: DAWG-HSMM
Date: 2008-09-07 18:26:03 UTC
From: John Champa
Topic: 1299 Message: 1301

Yes, I think the Austin HSMM SIG....

On Fri, Sep 5, 2008 at 6:01 PM, Kilgore <kilgore1317@...> wrote:

> I happened upon this paper on Mesh Networking. It's a long URL so
> you'll have to cut and paste to your browser.
>
>
> http://download.berlin.freifunk.net/ebooks/Building_a_Rural_Wireless_Mesh_Network_-_A_DIY_Guide_v0.7_65.pdf
>
> Has any ham implemented something similar?
>
> Doug Kilgore KD5OUG
>
>

--
Nisciune nasce imparate

[Non-text portions of this message have been removed]

1302. ARRL/TAPR Digital Communication Conference, Chicago, September 26 - 28

Yahoo group: DAWG-HSMM
Date: 2008-09-11 22:17:59 UTC
From: Mark Thompson
Topic: 1302 Message: 1302

http://www.arrl.org/news/stories/2008/09/11/10327/?nc=1

ARRL, TAPR Prepare for Digital Communications Conference in Chicago, September 26 - 28

Aficionados of digital communications are gearing up for the 27th annual ARRL/TAPR Digital Communications Conference (DCC) September 26-28 in Chicago, Illinois. The ARRL/TAPR Digital Communications Conference is an international forum for radio amateurs to meet, publish their work and present new ideas and techniques. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. The DCC is for all levels of technical experience -- not just for the expert. Not only is the conference technically stimulating, it is a weekend of fun for all who have more than a casual interest in any aspect of amateur digital electronics and communications; introductory sessions are scheduled throughout the conference to introduce new technical topics for both beginners and experts.

Topics at the DCC include, but are not limited to: Software defined radio (SDR); digital voice (D-STAR, P25, WinDRM, FDMDV, G4GUO); digital satellite communications; Global Position System (GPS); precision timing; Automatic Position Reporting System (APRS); short messaging (a mode of APRS); Digital Signal Processing (DSP); HF digital modes; Internet interoperability with Amateur Radio networks; spread spectrum; IEEE 802.11 and other Part 15 license-exempt systems adaptable for Amateur Radio; using TCP/IP networking over Amateur Radio; mesh and peer-to-peer wireless networking; emergency and Homeland Defense backup digital communications; using Linux in Amateur Radio; updates on AX.25, and other wireless networking protocols.

QEX Editor Larry Wolfgang, WR1B, will represent the ARRL at the Conference. He will also be giving a talk "Writing for Publication -- It's Not Rocket Science (Even if You Are Writing About Rocket Science!)." Retired ARRL Chief Technology Officer Paul Rinaldo, W4RI, will also represent the League. Rinaldo will speak on "SDR Outlook."

The DCC provides a separate (and lockable) room for participants to bring and show off their latest projects. Tables and power will be provided. Participants are encouraged to bring their own equipment and display for all to see, learn, and ask questions about, as well as a small sign and/or flyer naming and describing their project.

D-STAR digital voice and data will be the focus of the DCC Friday evening session. Pioneers and leaders in D-STAR digital voice and data technology will be presenting the technical innovations in D-STAR and how it is being used worldwide. In addition to the Friday evening session, ICOM will be at the DCC demonstrating D-STAR radios in the demonstration room, and TAPR's 70 cm and 23 cm D-STAR digital voice and data repeaters (KT7APR) with Internet gateway will be on the air.

Sunday Seminar Speaker Announced

Each year, the DCC hosts an in-depth 4 hour seminar on Sunday. Past seminars have included such topics as Software Defined Radios, Spread Spectrum Design and Theory, RD Design and Deployment, PICmicro MCU Design and Development, Packet Radio Networks with Millions or Billions of Stations and others. Seminars are given by experts in their field -- this year is no different. Phil Harman, VK6APH, will present "Software Radio Through the Looking-Glass."

Harman, licensed for more than 40 years, has worked on leading-edge RF techniques related to receivers and transmitters. His current passion is the development of fully digital HF radios. Harmon co-writes the Software Defined Radio column in the RSGB Radio Communications journal and also co-authored the SDR chapter in the latest RSGB Handbook. He will guide participants through the basics of SDRs right up to the very latest techniques that digitize signals directly at the antenna socket. Using diagrams and a minimum of math, Harmon will cover such subjects as front end design, mixers, I and Q signals, digital up and down conversion, AGC techniques, noise blanking and high efficiency power amplifiers. The presentation will be highly interactive, so be sure to bring along that question that has been puzzling you for so long!

Conference presentations, meetings, and seminars will be held at the Holiday Inn Hotel Elk Grove Village, Illinois. It is highly recommended that participants book rooms prior to arriving. A block of rooms at the special DCC room rate of $89.00 single/double is available; this rate is good until the block is all sold out. The hotel provides a complimentary shuttle to and from O'Hare Airport.

Register for the DCC at: www.tapr.org/dcc

[Non-text portions of this message have been removed]

1303. DCC (Digital Communication Conference) Online Registration Still Available

Yahoo group: DAWG-HSMM
Date: 2008-09-17 00:51:23 UTC
From: Mark Thompson
Topic: 1303 Message: 1303

Although Online DCC(Digital Communication Conference) Registration is Closing on Wednesday Septermber 17th

DCC Walk-In Registration Will Be Available & Is Welcome!

See you at the DCC in Chicago on September 26 - 28!!

73, Mark, WB9QZB

-----Original Message-----
From: Steven Bible <srbible@...>
Sent: Tue, 16 Sep 2008 10:05 am
Subject: [tapr-announce] DCC - Advanced Online Registration Closes Wed Sep 17th

ARRL and TAPR Digital Communications Conference
September 26-28, 2008
Chicago, IL

http://www.tapr.org/dcc

Advanced online registration for DCC will close midnight Wednesday Sep. 17th as the TAPR office moves its way to the DCC hotel in Chicago. Registration will be available at the door.

Be sure to make your food reservations now to ensure that a meal is available for you. A food count has to be given to the hotel in advanced and only a limited number of extra meals will be order for sale at the door.

See you at the DCC!

_____
tapr-announce mailing list

----- Forwarded Message ----

DCC Forum Schedule Announced and Available at:

http://www.tapr.org/pdf/DCC_2008_Schedule_Preliminary.pdf (and may be attached)

DCC Presentations Include:

Bob Bruninga, WB4APR, APRS

Phil Harman, VK6APH, Software Defined Radio

Rick Muething, KN6KB, New Soundcard Mode for Winlink

Paul Rinaldo (ARRL), W4RI, SDR

Larry Wolfgang (ARRL) , WR1B, QEX Editor

D-STAR Technical & Introductory Presentations AND D-STAR Friday Night Get Together including
- Robin Cutshaw, AA4RC, DV Dongle, dplus, D-STAR Reflectors & more
- Pete Loveall, AE5PL, D-PRS
- Dan Smith, KK7DS, D-RATS & D-STAR Digital Messaging
- Ray Novak, N9JA, Icom

Banquet Keynote Speaker, Tom Clark, K3IO, AMSAT

and many more...

Register for the DCC at: www.tapr.org/dcc

http://www.arrl.org/news/stories/2008/09/11/10327/?nc=1

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session, ICOM will be at the DCC demonstrating D-STAR radios in the demonstration room, and TAPR's 70 cm and 23 cm D-STAR digital voice and data repeaters (KT7APR) with Internet gateway will be on the air.

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Register for the DCC at: www.tapr.org/dcc

[Non-text portions of this message have been removed]

1304. Re: (Fwd) [Ham-80211] Aerocomm Modems

Yahoo group: DAWG-HSMM
Date: 2008-09-30 06:32:14 UTC
From: Steve
Topic: 340 Message: 1304

I wanted to give an update on these as I have been playing with them again. I feel these and the Ubiquiti NanoStations are the two best all around deals and best bets.

With the Aerocomm units we have observed solid non line of site mobile coverage for 3 miles. This is with a base station at 35 feet into a 6 dBd omni and just a mag mount on the car. There is still mobile coverage up to about 6 miles, it's just not solid.

For more info on these units:
http://www.qsl.net/n9zia/aerocomm/

--- In ntms-hsmm@yahoogroups.com, jbeadles@... wrote:
>
> This off the TAPR 802.11 list...
>
> ------- Forwarded message follows -------
> From: "Steve Lampereur" <kb9mwr@...>
> To: <ham-80211@...>
> bscribe>
>
>
> I saw these in the RF Design magazine. Something a few of us in
Green Bay
> are seriosuly considering playing with.
>
> Quick summary : 1 watt 900 MHS FHSS, 115.2 kbps $99
>
> The URL for the home page is http://www.aerocomm.com
> The complete URL for the pdf spec sheet is:
>
> http://www.aerocomm.com/Docs/Datasheet_ConnexLink.pdf
>
> It appears that we could set up a DHCP sever and handle this like an
> ISP. That would be truly cool, make it a TCP/IP network.
>

1305. Re: [ntms-hsmm] Re: (Fwd) [Ham-80211] Aerocomm Modems

Yahoo group: DAWG-HSMM
Date: 2008-10-02 10:01:05 UTC
From: John Champa
Topic: 340 Message: 1305

Steve,

OK to publish your test results in CQ VHF?

73,
John K8OCL

On Tue, Sep 30, 2008 at 6:32 AM, Steve <kb9mwr@...> wrote:

> I wanted to give an update on these as I have been playing with them
> again. I feel these and the Ubiquiti NanoStations are the two best
> all around deals and best bets.
>
> With the Aerocomm units we have observed solid non line of site mobile
> coverage for 3 miles. This is with a base station at 35 feet into a 6
> dBd omni and just a mag mount on the car. There is still mobile
> coverage up to about 6 miles, it's just not solid.
>
> For more info on these units:
> http://www.qsl.net/n9zia/aerocomm/
>
> --- In ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>, jbeadles@...
> wrote:
> >
> > This off the TAPR 802.11 list...
> >
> > ------- Forwarded message follows -------
> > From: "Steve Lampereur" <kb9mwr@...>
> > To: <ham-80211@...>
> > bscribe>
> >
> >
> > I saw these in the RF Design magazine. Something a few of us in
> Green Bay
> > are seriosuly considering playing with.
> >
> > Quick summary : 1 watt 900 MHS FHSS, 115.2 kbps $99
> >
> > The URL for the home page is http://www.aerocomm.com
> > The complete URL for the pdf spec sheet is:
> >
> > http://www.aerocomm.com/Docs/Datasheet_ConnexLink.pdf
> >
> > It appears that we could set up a DHCP sever and handle this like an
> > ISP. That would be truly cool, make it a TCP/IP network.
> >

>
>
>

--
Nisciune nasce imparate

[Non-text portions of this message have been removed]

1306. Re: (Fwd) [Ham-80211] Aerocomm Modems

Yahoo group: DAWG-HSMM
Date: 2008-10-04 04:29:07 UTC
From: Steve
Topic: 340 Message: 1306

Absolutely fine.

--- In ntms-hsmm@yahoogroups.com, "John Champa" <radioskyart@...> wrote:
>
> Steve,
>
> OK to publish your test results in CQ VHF?
>
> 73,
> John K8OCL
>
> On Tue, Sep 30, 2008 at 6:32 AM, Steve <kb9mwr@...> wrote:
>
> > I wanted to give an update on these as I have been playing with them
> > again. I feel these and the Ubiquiti NanoStations are the two best
> > all around deals and best bets.
> >
> > With the Aerocomm units we have observed solid non line of site mobile
> > coverage for 3 miles. This is with a base station at 35 feet into a 6
> > dBd omni and just a mag mount on the car. There is still mobile
> > coverage up to about 6 miles, it's just not solid.
> >
> > For more info on these units:
> > http://www.qsl.net/n9zia/aerocomm/
> >
> > --- In ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>,
jbeadles@
> > wrote:
> > >
> > > This off the TAPR 802.11 list...
> > >
> > > ------- Forwarded message follows -------
> > > From: "Steve Lampereur" <kb9mwr@>
> > > To: <ham-80211@>
> > > bscribe>
> > >
> > >
> > > I saw these in the RF Design magazine. Something a few of us in
> > Green Bay
> > > are seriosuly considering playing with.
> > >
> > > Quick summary : 1 watt 900 MHS FHSS, 115.2 kbps $99
> > >
> > > The URL for the home page is http://www.aerocomm.com
> > > The complete URL for the pdf spec sheet is:

> > >
> > > http://www.aerocomm.com/Docs/Datasheet_ConnexLink.pdf
> > >
> > > It appears that we could set up a DHCP sever and handle this like an
> > > ISP. That would be truly cool, make it a TCP/IP network.
> > >
> >
> >
> >
>
>
>
> --
> Nisciune nasce imparate
>
>
> [Non-text portions of this message have been removed]
>

1307. Re: [ntms-hsmm] Re: (Fwd) [Ham-80211] Aerocomm Modems

Yahoo group: DAWG-HSMM
Date: 2008-10-04 06:30:28 UTC
From: John Champa
Topic: 340 Message: 1307

Thanks Steve. A write-up will appear in the next issue of CQ VHF.

73,
John K8OCL

On Sat, Oct 4, 2008 at 4:29 AM, Steve <kb9mwr@...> wrote:

> Absolutely fine.
>
>
> --- In ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>, "John
> Champa" <radioskyart@...> wrote:
> >
> > Steve,
> >
> > OK to publish your test results in CQ VHF?
> >
> > 73,
> > John K8OCL
> >
> > On Tue, Sep 30, 2008 at 6:32 AM, Steve <kb9mwr@...> wrote:
> >
> > > I wanted to give an update on these as I have been playing with them
> > > again. I feel these and the Ubiquiti NanoStations are the two best
> > > all around deals and best bets.
> > >
> > > With the Aerocomm units we have observed solid non line of site mobile
> > > coverage for 3 miles. This is with a base station at 35 feet into a 6
> > > dBd omni and just a mag mount on the car. There is still mobile
> > > coverage up to about 6 miles, it's just not solid.
> > >
> > > For more info on these units:
> > > http://www.qsl.net/n9zia/aerocomm/
> > >
> > > --- In ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com><ntms-hsmm%
> 40yahoogroups.com>,
> jbeadles@
> > > wrote:
> > > >
> > > > This off the TAPR 802.11 list...
> > > >
> > > > ------- Forwarded message follows -------
> > > > From: "Steve Lampereur" <kb9mwr@>
> > > > To: <ham-80211@>
> > > > bscribe>
> > > >

> > > >
> > > > I saw these in the RF Design magazine. Something a few of us in
> > > Green Bay
> > > > are seriosuly considering playing with.
> > > >
> > > > Quick summary : 1 watt 900 MHS FHSS, 115.2 kbps $99
> > > >
> > > > The URL for the home page is http://www.aerocomm.com
> > > > The complete URL for the pdf spec sheet is:
> > > >
> > > > http://www.aerocomm.com/Docs/Datasheet_ConnexLink.pdf
> > > >
> > > > It appears that we could set up a DHCP sever and handle this like an
> > > > ISP. That would be truly cool, make it a TCP/IP network.
> > > >
> > >
> > >
> > >
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> >
> >
> > --
> > Nisciune nasce imparate
> >
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>

--
Nisciune nasce imparate

[Non-text portions of this message have been removed]

1308. Re: (Fwd) [Ham-80211] Aerocomm Modems

Yahoo group: DAWG-HSMM
Date: 2008-10-05 02:16:35 UTC
From: Steve
Topic: 340 Message: 1308

--- In ntms-hsmm@yahoogroups.com, "John Champa" <radioskyart@...> wrote:
>
> Thanks Steve. A write-up will appear in the next issue of CQ VHF.
>
> 73,
> John K8OCL

Does anyone know if they sell CQ-VHF archive CD's? Or I at least wish one of the book stores around here had a copy to browse at from time to time.

1309. Re: [ntms-hsmm] Re: (Fwd) [Ham-80211] Aerocomm Modems

Yahoo group: DAWG-HSMM
Date: 2008-10-05 03:24:49 UTC
From: Kipton Moravec
Topic: 340 Message: 1309

Texas Towers sells CQ-VHF. I do not know about CDs.

Kip

On Sun, 2008-10-05 at 02:16 +0000, Steve wrote:
> --- In ntms-hsmm@yahoogroups.com, "John Champa" <radioskyart@...> wrote:
> >
> > Thanks Steve. A write-up will appear in the next issue of CQ VHF.
> >
> > 73,
> > John K8OCL
>
> Does anyone know if they sell CQ-VHF archive CD's? Or I at least wish
> one of the book stores around here had a copy to browse at from time
> to time.
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
--
Kipton Moravec AE5IB
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1310. DCC (Digital Communications Conference) A Success & Returning to Chicago Next Year

Yahoo group: DAWG-HSMM
Date: 2008-10-08 22:19:20 UTC
From: Mark Thompson
Topic: 1310 Message: 1310

http://www.arrl.org/news/stories/2008/10/02/10371/?nc=1

ARRL/TAPR Digital Communications Conference: "Pretty Interesting!"

The main presentation room at the 2008 ARRL/TAPR DCC provided ample seating and tables, as well as power supplies, for laptops. [Larry Wolfgang, WR1B, Photo]

Kermit Carlson, W9XA (left), and Rick Muething, KN6KB, go over the final arrangements just before Muething's presentation on audio/visual equipment. Carlson coordinated the a/v for the DCC. [Larry Wolfgang, WR1B, Photo]

Almost 150 aficionados of digital communications came to Chicago for the 27th annual ARRL/TAPR Digital Communications Conference (DCC) the weekend of September 26-28. This conference is an international forum for radio amateurs to meet, publish their work and present new ideas and techniques. Presenters and attendees had the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. Not only was the conference technically stimulating, it was a weekend of fun for all who have more than a casual interest in any aspect of amateur digital electronics and communications; introductory sessions were scheduled throughout the conference to introduce new technical topics for both beginners and experts.

One of the attendees was QEX Editor Larry Wolfgang, WR1B, representing the ARRL. He gave a talk "Writing for Publication - It's Not Rocket Science (Even if You Are Writing About Rocket Science!)." Retired ARRL Chief Technology Officer Paul Rinaldo, W4RI, also represented the League, speaking on "SDR Outlook." Central Division Vice Director Howard Huntington, K9KM was present, as was ARRL Contributing Editor H. Ward Silver, N0AX.

Wolfgang gave his presentation on Friday morning and said he talked with many participants throughout the conference who told him that he had them enthused about writing something for QEX. "It also seemed like almost everyone there was making a point to stop me in the hallways or at mealtimes to tell me how much they are enjoying QEX, and to thank me for the effort I putting into the magazine," he said.

Friday was a full day of technical presentations, including "A Protocol for Multicast Weather Data Distribution over AX25," by Nick Luther, K9NL; "SuitSat-2 Update," by Steve Bible, N7HPR; "EcomScs and GateWayScs AX25 Packet Radio E-Mail," by John Blowsky, KB2SCS, and "Frequency and Other New Initiatives in APRS," by Bob Bruninga, WB4APR. The last presentation of the afternoon was "D-STAR Uncovered," by Peter Loveall, AE5PL.

The DCC provided a separate demonstration room for participants to bring and show off their latest projects. Participants were encouraged to bring their own equipment and display for all to see and learn. Wolfgang said he had some "play time" in this room after all the presentations on Friday. After dinner that evening, he said there was "a string of D-STAR presentations starting at 7 PM and lasting until after 10 PM. These were all very interesting presentations, including the D-RATS messaging software by Dan Smith, KK7DS.

Peter Loveall, AE5PL, presented "D-PRS Update" about ways the D-STAR data links can be used to send and plot APRS position maps or interface to the APRS system. Robin Cutshaw, AA4RC, gave a presentation about DV-Dongle, a PC add-on that allows connection to D-STAR repeaters around the world through your PC and an Internet connection. Pretty interesting!"

In addition to the main technical presentations on Saturday, there was also a full day of introductory sessions, mostly about digital voice and D-STAR.

Also on Saturday, Matt Etttus, N2MJI, gave a report on the Ettus Research USRP2. Tom Clark, K3IO, gave an "AMSAT Update." Paul Wiedemeier, KE5LKY, presented his paper on "Using UDPcast to IP Multicast Data over Packet Radio." Paul Rinaldo, W4RI, gave his "SDR Outlook" that covered the international regulatory front and presented some of the concerns that some world governments have with regard to the flexibility of SDR. Scott Cowling, WA2DFI, gave an "HPSDR (High Performance Software Defined Radio) Update" during which he described the various circuit boards that make up the HPSDR project. He also demonstrated a complete working radio in the demo room. Jerry Shirar, N9XR, presented a paper called "Clocking the Data," concerning the use of an inverter and a crystal to form a Colpitts oscillator.

Victor Poor, W5SMM, gave an update on Winlink 2000. "He reported that there is one Web site, five Common Message Server sites around the world, 150 Radio Message Service Pactor Gateway sites, 800 RMS Packet Gateway sites and over 13,000 registered users," Wolfgang said. "He also mentioned that inactive users are purged from the system from time to time."

Rick Muething, KN6KB, described his "WINMOR Soundcard ARQ Mode for Winlink HF Digital Messaging." Wolfgang said that this was a much anticipated presentation: "Rick reported that WINMOR is 3 to 4 months from beta testing. His preliminary comparisons to Pactor 1, 2 and 3 use a simulator. He indicates that WINMOR will have better throughput than Pactor 1 and comparable to, or perhaps a bit better than Pactor 2, but not quite as good as Pactor 3. He indicated that the efficiency is within about 70 percent of Pactor ARQ."

The TAPR Annual Meeting was held after all the presentations on Saturday where the Board of Directors discussed the idea of coming back to the same hotel for next year's DCC. "The local group that supported DCC this year, including Mark Thompson, WB9QZB, and Kermit Carlson, W9XA, did a great job of providing AV support," Wolfgang said. "Ron Steinberg, K9IKZ, who owns a local audio/visual company, provided two large projection screens and projectors, so every presentation was shown on both sides of the room, as well as on a widescreen TV outside the room. The audio was very easy to hear, even if you were in the hall outside the room or in the demonstration room; the set-up was left there from the W9DXCC Convention the previous weekend. They offered to provide the same support for next year, if the DCC returned. So, the decision was made to break with tradition, and return to Chicago next year, September 25-27."

Phil Harman, VK6APH, presented the Sunday morning seminar, "Software Defined Radio Through the Looking Glass." Wolfgang said he found Harman's presentation to be understandable "at my level of knowledge, and he gave a lot of good insight into many of the design decisions that went into the High Performance Software Defined Radio Project. I found his descriptions of how the hardware and software work to be very interesting. The four hours went by quickly."

For more information on the 2008 Digital Communications Conference, please visit TAPR's DCC Web page.

Page last modified: 01:47 PM, 02 Oct 2008 ET
Page author: awextra@...
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[Non-text portions of this message have been removed]

1311. WRT54GL On Sale at Fry's

Yahoo group: DAWG-HSMM
Date: 2008-10-11 06:10:49 UTC
From: Kilgore
Topic: 1311 Message: 1311

Fry's is advertising the Linksys WRT54GL for $49.99. Sale good Oct. 10 - 14.

Doug KD5OUG

1312. Re: WRT54GL On Sale at Fry's

Yahoo group: DAWG-HSMM
Date: 2008-10-11 19:40:53 UTC
From: Chris Kantarjiev
Topic: 1311 Message: 1312

I know that the GL will run the various alternate firmwares - is there enough flash to make a file system, too?

73 de chris K6DBG

1313. Re: [ntms-hsmm] Re: WRT54GL On Sale at Fry's

Yahoo group: DAWG-HSMM
Date: 2008-10-11 20:12:30 UTC
From: Glenn Currie
Topic: 1311 Message: 1313

There is limited room, but yes, OpenWrt makes use of a
file system to allow for firmware functions to be added as
modules, rather than redoing one big monolithic piece of
firmware. This helps reduce debugging of new features.
In windows these modules are .dll files - dynamically linked
libraries. Of course this concept was used long before
Microsoft existed.

There is information on the web regarding how to add a
compact flash drive to the 54GL. This allows much greater
room for a file system, as only the more basic boot information
must remain in the internal flash memory soldered on the
board.

So yes there is room for a small file system in the WRT54GL.
See www.openwrt.org

-Glenn

Chris Kantarjiev <cak@...> wrote: I know that the GL will run the various alternate
firmwares - is
there enough flash to make a file system, too?

73 de chris K6DBG

[Non-text portions of this message have been removed]

1314. Fonera

Yahoo group: DAWG-HSMM
Date: 2008-10-13 15:58:17 UTC
From: Steve
Topic: 1314 Message: 1314

Speaking of router deals. Has anyone noticed and or messed with the Fonera ones?

Apparently these can be had for $5-30 and they are Atheros based. (I.E. Capable of 2317-2732 MHz, with selectable channel widths, etc.)

The dd-wrt page shows support for them. Beyond that I don't know much about them, but am intrigued.

http://gizmodo.com/gadgets/wireless/5-fon-la-fonera-router-shares-wifi-out-now-207244.php

http://www.fon.com/en/

http://www.wi-fiplanet.com/reviews/article.php/3683416

1315. Scout Jamboree-On-The-Air In the Park

Yahoo group: DAWG-HSMM
Date: 2008-10-17 18:28:44 UTC
From: Kilgore
Topic: 1315 Message: 1315

The Richardson Wireless Klub is setting up a ham radio station in Cottonwood Park in Richardson for Scouts and their parents to visit. Scouts will have an opportunity to communicate with other Scouts around the world by voice and/or morse code. It?s to be a hands-on exercise to expose Scouts to amateur radio and to demonstrate how ham radio can be used in an emergency situation.

DATE: Sat., Oct. 18, 2008 TIME: 9:00am ? 3:00pm
LOCATION: Cottonwood Park, 1400 West Beltline, Richardson

Please come by the park and help us show ham radio to the Scouts. Or give us a call on the repeater 147.12.

Doug Kilgore KD5OUG
Ph 972-231-8539

1316. Re: WRT54GL APRS Gateway??

Yahoo group: DAWG-HSMM
Date: 2008-11-13 07:04:30 UTC
From: Steve
Topic: 1236 Message: 1316

Bill, this is very interesting. I've got a couple guys up here who have been wondering about running their TCP/IP packet stations off a WRT router after adding a serial port to them and adding a SD card.

I'll forward them this..

--- In ntms-hsmm@yahoogroups.com, "Bill Vodall WA7NWP" <wa7nwp@...> wrote:
>
> > Hi Doug. I'm being told that there are two serial ports on the
> > WRT54GL and GS version. Below are some links that explain how to get
> > to them.
> >
> > I would like to receive APRS packets from a TNC over RS232 and then
> > have a linux script forward that data to the APRS gateway servers.
>
> Check out:
>
> http://www.dimebank.com/cak/k6dbg/k6dbg_aprs.html
>
> and in particular:
>
> http://www.aprs4r.org/cgi-bin/trac.cgi/wiki/WikiStart
>
> 73
> Bill - WA7NWP
>

1317. Fall CQ-VHF piece

Yahoo group: DAWG-HSMM
Date: 2008-11-13 07:35:39 UTC
From: Steve
Topic: 1317 Message: 1317

I guess I subscribed in time to get this issue. I found the piece on mesh networking interesting. It's something I haven't messed with yet.

Here are some other Aerocomm tid-bits for anyone interested. (I'm not sure if Jeff King is on this list? He seemed interested in these things)

We put some attenuators in line with our Aerocomm TCPIP link to try and simulate the worst sustainable link. It's hard so say what out exact signal quality was as our hacked multi-meter RSSI idea jumps around a lot, but the it appears the worst data throughput is 800 baud, any worse and you likely don't have a link at all.

By the way we hex-hacked our units to hop only 902-915 MHz. We are doing a 900 analog repeater at the same site. There is no noticeable analog signal degradation as the receiver is 927 MHz. And there is no noticable throughput drop when the analog 902 MHz analog carrier comes up.. You can watch these units hop around that carrier just like you read about and expect FHSS to work.

Thanks to Bill for pointing out the Ubiquiti Nanostations, We picked a couple of these up. We replaced a 2 mile 2.4 GHz path with these. The link again is at modest heights 35 feet and 50 feet, inner city. It's been semi-marginal at times before due to co-channel devices. The S/N ratios appear much better now s this took the lengthy coax loss out of the equation. We are also now using a 5 MHz channel just below 2400 MHz. One negative seems to be the usable S/N ratio of these units compared to a Linksys WRT54G. It takes a couple db or more over what worked with the Linksys.

By the way there is now a NanoStation Loco with a $49 MSRP. It also is supported by a Linux SDK to encourage open source development. It's also a little less powerful, only 20 dBm (100 mW) instead of 26. (400 mW), and lacks the external RP-SMA.. Keep in mind after market firmware hacks let you do nearly one watt with the normal NS2, so this is likely a low ended report of what is actually capable of.

http://www.dailywireless.org/2008/10/28/ubiquiti-announces-tiny-wi-fi-cpe/

(If anyone has any CQ-VHF issues they are willing to part with, it looks like our club library is missing a couple issues, specifically Summer and Fall of 03. Contact me off list if you can help)

1318. Re: [ntms-hsmm] Fall CQ-VHF piece

Yahoo group: DAWG-HSMM
Date: 2008-11-13 16:16:51 UTC
From: John Champa
Topic: 1317 Message: 1318

Glad you enjoyed the CQ-VHF HSMM column on Mesh Network. Fun subject!
I might be able to help you with the magazine back issues. If so, I will
write to you
off-line.

Vy 73,
John K8OCL

On Thu, Nov 13, 2008 at 7:35 AM, Steve <kb9mwr@...> wrote:

> I guess I subscribed in time to get this issue. I found the piece on
> mesh
> networking interesting. It's something I haven't messed with yet.
>
> Here are some other Aerocomm tid-bits for anyone interested. (I'm not sure
> if Jeff King is on this list? He seemed interested in these things)
>
> We put some attenuators in line with our Aerocomm TCPIP link to try and
> simulate the worst sustainable link. It's hard so say what out exact signal
>
> quality was as our hacked multi-meter RSSI idea jumps around a lot, but the
>
> it appears the worst data throughput is 800 baud, any worse and you likely
> don't have a link at all.
>
> By the way we hex-hacked our units to hop only 902-915 MHz. We are doing a
> 900 analog repeater at the same site. There is no noticeable analog signal
> degradation as the receiver is 927 MHz. And there is no noticable
> throughput drop when the analog 902 MHz analog carrier comes up.. You can
> watch these units hop around that carrier just like you read about and
> expect FHSS to work.
>
> Thanks to Bill for pointing out the Ubiquiti Nanostations, We picked a
> couple of these up. We replaced a 2 mile 2.4 GHz path with these. The link
> again is at modest heights 35 feet and 50 feet, inner city. It's been
> semi-marginal at times before due to co-channel devices. The S/N ratios
> appear much better now s this took the lengthy coax loss out of the
> equation. We are also now using a 5 MHz channel just below 2400 MHz. One
> negative seems to be the usable S/N ratio of these units compared to a
> Linksys WRT54G. It takes a couple db or more over what worked with the
> Linksys.
>
> By the way there is now a NanoStation Loco with a $49 MSRP. It also is
> supported by a Linux SDK to encourage open source development. It's also a
> little less powerful, only 20 dBm (100 mW) instead of 26. (400 mW), and
> lacks the external RP-SMA.. Keep in mind after market firmware hacks let

> you do nearly one watt with the normal NS2, so this is likely a low ended
> report of what is actually capable of.
>
> http://www.dailywireless.org/2008/10/28/ubiquiti-announces-tiny-wi-fi-cpe/
>
> (If anyone has any CQ-VHF issues they are willing to part with, it looks
> like our club library is missing a couple issues, specifically Summer and
> Fall of 03. Contact me off list if you can help)
>
>
>

--
Nisciune nasce imparate

[Non-text portions of this message have been removed]

1319. [Fwd: [NTMS] 2304 and 3456 MHz]

Yahoo group: DAWG-HSMM
Date: 2008-11-20 01:18:48 UTC
From: Kilgore
Topic: 1319 Message: 1319

Can anyone help Al? <w5lua@...>

Doug KD5OUG

[Non-text portions of this message have been removed]

1320. Re: [NTMS] 2304 and 3456 MHz

Yahoo group: DAWG-HSMM
Date: 2008-11-20 02:13:47 UTC
From: Kilgore
Topic: 1320 Message: 1320

Can anyone help Al with info? <w5lua@...>

Doug KD5OUG

Al Ward wrote:
>
> Hello NTMS
>
> Does anyone know of any digital or HSMM operation in the Fairview area
> on 2304 and 3456 MHz?
>
> Thanks
>
> Al W5LUA
>

1321. [NTMS] 2304 and 3456 MHz (fwd)

Yahoo group: DAWG-HSMM
Date: 2008-11-20 02:38:52 UTC
From: Rusty Haddock
Topic: 1321 Message: 1321

Can anyone help Al?
(Doug, your attachment didn't show up... well, at least for me)

-Rusty-

----- Forwarded message from Al Ward <w5lua@...> -----

To: "'NTMS LIST'" <ntms@...>
From: "Al Ward" <w5lua@...>
Subject: [NTMS] 2304 and 3456 MHz
Date: Wed, 19 Nov 2008 17:43:23 -0000

Hello NTMS

Does anyone know of any digital or HSMM operation in the Fairview area on
2304 and 3456 MHz?

Thanks

Al W5LUA

----- End forwarded message -----

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1322. Re: [ntms-hsmm] Re: [NTMS] 2304 and 3456 MHz

Yahoo group: DAWG-HSMM
Date: 2008-11-20 05:26:09 UTC
From: jbeadles@pobox.com
Topic: 1320 Message: 1322

Nothing I'm aware of.

On 19 Nov 2008 at 20:13, Kilgore wrote:

> Can anyone help Al with info? <w5lua@...>
>
> Doug KD5OUG
>
>
> Al Ward wrote:
> >
> > Hello NTMS
> >
> > Does anyone know of any digital or HSMM operation in the Fairview area
> > on 2304 and 3456 MHz?
> >
> > Thanks
> >
> > Al W5LUA
> >
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

John Beadles
jbeadles@...
972-898-0843

1323. Re: [ntms-hsmm] [NTMS] 2304 and 3456 MHz (fwd)

Yahoo group: DAWG-HSMM
Date: 2008-11-20 11:52:37 UTC
From: John Champa
Topic: 1321 Message: 1323

Now all I have to do is figure out where Fairview is located. HI

It is highly unlikely there would be any regular HSMM activity down on 2304 MHz.
The lowest "normal" HSMM center frequency on that band would be 2412 MHz.
That is the center frequency for Channel 1 in the Part 15 802.11 Band Plan....
unless Al is also talking about UWB and that is 500 MHz wide bandwidth.
Kent Britain, WA5VJB, might know the situation there.

73,
John K8OCL

On Thu, Nov 20, 2008 at 2:38 AM, Rusty Haddock <rusty@...>wrote:

> Can anyone help Al?
> (Doug, your attachment didn't show up... well, at least for me)
>
> -Rusty-
>
> ----- Forwarded message from Al Ward <w5lua@...<w5lua%40sbcglobal.net>>
> -----
>
> To: "'NTMS LIST'" <ntms@... <ntms%40itexas.net>>
> From: "Al Ward" <w5lua@... <w5lua%40sbcglobal.net>>
> Subject: [NTMS] 2304 and 3456 MHz
> Date: Wed, 19 Nov 2008 17:43:23 -0000
>
> Hello NTMS
>
> Does anyone know of any digital or HSMM operation in the Fairview area on
> 2304 and 3456 MHz?
>
> Thanks
>
> Al W5LUA
>
> ----- End forwarded message -----
>
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>
>

--
Nisciune nasce imparate

[Non-text portions of this message have been removed]

1324. Re: [NTMS] 2304 and 3456 MHz (fwd)

Yahoo group: DAWG-HSMM
Date: 2008-11-20 18:54:45 UTC
From: Steve
Topic: 1321 Message: 1324

Using something Atheros chipset based, the lowest center channel is 2312 MHz. Even if you lock that 5 MHz wide, which you can do with that chipset, it's going to be spread over 2309.5-2314.5 MHz which dosen't ling up with the lower 2300-2310 MHz amateur allocation.

So really the lowest Atheros channel one can use is centered at 2394 MHz.

--- In ntms-hsmm@...m, "John Champa" <radioskyart@...> wrote:
>
> Now all I have to do is figure out where Fairview is located. HI
>
> It is highly unlikely there would be any regular HSMM activity down on 2304
> MHz.
> The lowest "normal" HSMM center frequency on that band would be 2412 MHz.
> That is the center frequency for Channel 1 in the Part 15 802.11 Band
> Plan....
> unless Al is also talking about UWB and that is 500 MHz wide bandwidth.
> Kent Britain, WA5VJB, might know the situation there.
>
> 73,
> John K8OCL

1325. Linksys WRT54GS v1.1 Free to a good home

Yahoo group: DAWG-HSMM
Date: 2008-12-01 01:35:52 UTC
From: w5adc
Topic: 1325 Message: 1325

At one of the recent events this unit was used on, one the the antennas broke off. I bet it can be repaired or used as-is, but I just don't have the time to fool with it. So, if you are interested in it, let me know. I am sure I can make you a great deal.

Tony
W5ADC

1326. Re: [ntms-hsmm] Linksys WRT54GS v1.1 Free to a good home

Yahoo group: DAWG-HSMM
Date: 2008-12-01 01:41:09 UTC
From: John Barrett
Topic: 1325 Message: 1326

I could use it -- I bricked mine trying to install new firmware, and
I've got applications that would work fine with one antenna

w5adc wrote:
>
> At one of the recent events this unit was used on, one the the antennas
> broke off. I bet it can be repaired or used as-is, but I just don't
> have the time to fool with it. So, if you are interested in it, let me
> know. I am sure I can make you a great deal.
>
> Tony
> W5ADC
>
>

1327. New Member HSMM

Yahoo group: DAWG-HSMM
Date: 2008-12-10 06:35:17 UTC
From: Kilgore
Topic: 1327 Message: 1327

Yahoo! Groups Notification wrote:
> Hello,
>
> The following person would like to join the ntms-hsmm group:
> Email address: ve7ffp <rfry.7@...>
>
> Comment from user:
> I belong to a disaster preparedness group. We can not afford to go the
> ID-1 route so this seems like an intereesting alternative
>
>

1328. Re: New Member HSMM

Yahoo group: DAWG-HSMM
Date: 2008-12-11 01:54:30 UTC
From: danielluechtefeld
Topic: 1327 Message: 1328

From VE7FFP:

> > I belong to a disaster preparedness group. We can not afford to go
the
> > ID-1 route so this seems like an intereesting alternative

If you have other, low-speed D-Star radios in your emcomm
architecture, you may be interested in some of the work that the
open source Asterisk PBX-based rtp_Dir project has succeeded in building
a
plugin that allow an Asterisk PBX to bridge D-Star, Echolink, and
IRLP, and conventional analog systems with each other.

Here's a YahooGroup devoted to ham use of Asterisk:

http://groups.yahoo.com/group/asterisk_radio/
<http://groups.yahoo.com/group/asterisk_radio/join>

[Non-text portions of this message have been removed]

1329. Re: New Member HSMM

Yahoo group: DAWG-HSMM
Date: 2008-12-11 06:16:28 UTC
From: Steve
Topic: 1327 Message: 1329

Yeah, the proposed D-Star to SIP translation, interests me as it could prove to be rather powerful.

I've been blogging about it, and some other HSMM stuff:
http://kb9mwr.blogspot.com/

--- In ntms-hsmm@yahoogroups.com, "danielluechtefeld"
<d.g.luechtefeld@...> wrote:
>
>
> From VE7FFP:
>
> > > I belong to a disaster preparedness group. We can not afford to go
> the
> > > ID-1 route so this seems like an intereesting alternative
>
> If you have other, low-speed D-Star radios in your emcomm
> architecture, you may be interested in some of the work that the
> open source Asterisk PBX-based rtp_Dir project has succeeded in building
> a
> plugin that allow an Asterisk PBX to bridge D-Star, Echolink, and
> IRLP, and conventional analog systems with each other.
>
> Here's a YahooGroup devoted to ham use of Asterisk:
>
> http://groups.yahoo.com/group/asterisk_radio/
> <http://groups.yahoo.com/group/asterisk_radio/join>
>
>
>
> [Non-text portions of this message have been removed]
>

1330. WiFi In Motion

Yahoo group: DAWG-HSMM
Date: 2008-12-12 05:22:21 UTC
From: Kilgore
Topic: 1330 Message: 1330

I happened upon this link while surfing the web:

http://www.wifiinmotion.com/howitworks

Combination of phone company broadband service and wifi. Expensive!

Doug KD5OUG

1331. Re: WiFi In Motion

Yahoo group: DAWG-HSMM
Date: 2008-12-12 06:56:10 UTC
From: Steve
Topic: 1330 Message: 1331

--- In ntms-hsmm@yahoogroups.com, Kilgore <kilgore1317@...> wrote:
>
> I happened upon this link while surfing the web:
>
> http://www.wifiinmotion.com/howitworks
>
> Combination of phone company broadband service and wifi. Expensive!
>
> Doug KD5OUG
>

Yeah, ouch. You can do the same with with a Linksys Mobile Broadband AP/Router (WRT54G3G) and a Verizon Air Card. For a lot cheaper!

I know someone who is doing just that- a mobile hot spot. And mobile 900 analog repeater tied to echolink over that internet connection and to the HF rig in the car along with VHF and UHF ports.

The vehicle would look like a porcupine, but thanks to those Larson low profile (salt shaker) antennas, it really doesn't.

1332. ubiquiti Challenge ($200k in prizes)

Yahoo group: DAWG-HSMM
Date: 2008-12-20 00:52:59 UTC
From: Robert Ellis
Topic: 1332 Message: 1332

Ubiquiti Networks has a new product called the RouterStation:
http://www.ubnt.com/products/rs.php

For the low low cost of $70, you get a MIPS based single board computer that has 3 miniPCI card slots. Picture a router with support for 802.11b/g for local connectivity, 802.11a for one long distance communications, and third link for 3.4GHz communications. With some miniPCI cards supporting antenna diversity, one RouterStation could result in quite an antenna farm. ;)

This board comes with openWRT support.

It seems that Ubiquiti feels that configuration of openWRT routers could have a better web interface, so they have issued a challenge to the openWRT community. Information can be found here:
http://www.ubnt.com/challenge
First prize gets $160k, and four additional prizes get $10k each.

I'd be interested in knowing if anyone in Plano is working on this.

robert

1333. Re: New Member HSMM

Yahoo group: DAWG-HSMM
Date: 2008-12-27 01:39:59 UTC
From: J. Beadles
Topic: 1327 Message: 1333

Howdy Steve,

Well, I'm interested now. I'm being paid to build an Asterisk installation (PBX in a flash), so I'm getting experience in it. I can probably get one in the new PARK repeater site. We've gotten the VHF and UHF repeaters moved in, and are working on getting the DSTAR & winlink radios in.

Have you seen this repeater controller? It's based on an Asterisk core. I'm interested in it for our analog repeaters, but it's pricey, somewhere around $1.2k.

http://www.radiogrid.com/

--- In ntms-hsmm@yahoogroups.com, "Steve" <kb9mwr@...> wrote:
>
> Yeah, the proposed D-Star to SIP translation, interests me as it
could
> prove to be rather powerful.
>
> I've been blogging about it, and some other HSMM stuff:
> http://kb9mwr.blogspot.com/
>
> --- In ntms-hsmm@yahoogroups.com, "danielluechtefeld"
> <d.g.luechtefeld@> wrote:
> >
> >
> > From VE7FFP:
> >
> > > > I belong to a disaster preparedness group. We can not afford
to go
> > the
> > > > ID-1 route so this seems like an intereesting alternative
> >
> > If you have other, low-speed D-Star radios in your emcomm
> > architecture, you may be interested in some of the work that the
> > open source Asterisk PBX-based rtp_Dir project has succeeded in
building
> > a
> > plugin that allow an Asterisk PBX to bridge D-Star, Echolink, and
> > IRLP, and conventional analog systems with each other.
> >
> > Here's a YahooGroup devoted to ham use of Asterisk:
> >
> > http://groups.yahoo.com/group/asterisk_radio/
> > <http://groups.yahoo.com/group/asterisk_radio/join>

> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

1334. Re: [ntms-hsmm] Re: New Member HSMM

Yahoo group: DAWG-HSMM
Date: 2008-12-27 23:27:45 UTC
From: kevin asato
Topic: 1327 Message: 1334

Just did a quick one look up for a Digium 4-port FXO (2-wire) PCI card and found a price of $350. This is the price of the card alone; one still needs to furnish an appropriate motherboard to mount this on. Also need semipermanent storage media and other peripherals. Cost ?? Let's lood at the Radio Grid - $1200 for 4 ports (hopefully 4-wire or separate transmit and receive leads), integrated with operating software on a much smaller footprint PCB - just add IP plan and routing policies. Sounds pretty fair to me.

You have to remember, too, that often times the initial cost of a somewhat proprietary (hardware and PCB design) platform with low volume selling and low production rates is higher than a system integrated with off the shelf parts. Then again, figure in your cost of labor (spec'ing, buying, installing, testing parts) and installing and integrating with the operating software. At my labor rates (what my company sells my services for), I think I have exceeded the cost of $1200!

Your mileage will obviously vary.

73,
kevin / kc6pob

--- On Fri, 12/26/08, J. Beadles <jbeadles@...> wrote:
From: J. Beadles <jbeadles@...>
Subject: [ntms-hsmm] Re: New Member HSMM
To: ntms-hsmm@yahoogroups.com
Date: Friday, December 26, 2008, 5:39 PM

Howdy Steve,

Well, I'm interested now. I'm being paid to build an Asterisk

installation (PBX in a flash), so I'm getting experience in it. I

can probably get one in the new PARK repeater site. We've gotten

the VHF and UHF repeaters moved in, and are working on getting the

DSTAR & winlink radios in.

Have you seen this repeater controller? It's based on an Asterisk

core. I'm interested in it for our analog repeaters, but it's

pricey, somewhere around $1.2k.

http://www.radiogri d.com/

--- In ntms-hsmm@yahoogrou ps.com, "Steve" <kb9mwr@...> wrote:

>

> Yeah, the proposed D-Star to SIP translation, interests me as it

could

> prove to be rather powerful.

>

> I've been blogging about it, and some other HSMM stuff:

> http://kb9mwr. blogspot. com/

>

> --- In ntms-hsmm@yahoogrou ps.com, "danielluechtefeld"

> <d.g.luechtefeld@ > wrote:

> >

> >

> > From VE7FFP:

> >

> > > > I belong to a disaster preparedness group. We can not afford

to go

> > the

> > > > ID-1 route so this seems like an intereesting alternative

> >

> > If you have other, low-speed D-Star radios in your emcomm

> > architecture, you may be interested in some of the work that the

> > open source Asterisk PBX-based rtp_Dir project has succeeded in

building

> > a

> > plugin that allow an Asterisk PBX to bridge D-Star, Echolink, and

> > IRLP, and conventional analog systems with each other.

> >

> > Here's a YahooGroup devoted to ham use of Asterisk:

> >

> > http://groups. yahoo.com/ group/asterisk_ radio/

> > <http://groups. yahoo.com/ group/asterisk_ radio/join>

> >

> >

> >

> > [Non-text portions of this message have been removed]

> >

>

[Non-text portions of this message have been removed]

1335. Re: New Member HSMM

Yahoo group: DAWG-HSMM
Date: 2008-12-28 04:23:36 UTC
From: Steve
Topic: 1327 Message: 1335

Hi.
Yeah I have seen that NHRC product. Yeah its very pricey as it's a commercially marketed thing. But it goes to show, Asterisk and SIP obviously have a future to interlink radio.

You can build the same thing for a whole heck of a lot less. Just give it a bit of time with PBX in a Flash.

--- In ntms-hsmm@yahoogroups.com, "J. Beadles" <jbeadles@...> wrote:
>
> Howdy Steve,
>
> Well, I'm interested now. I'm being paid to build an Asterisk
> installation (PBX in a flash), so I'm getting experience in it. I
> can probably get one in the new PARK repeater site. We've gotten
> the VHF and UHF repeaters moved in, and are working on getting the
> DSTAR & winlink radios in.
>
> Have you seen this repeater controller? It's based on an Asterisk
> core. I'm interested in it for our analog repeaters, but it's
> pricey, somewhere around $1.2k.
>
> http://www.radiogrid.com/
>
> --- In ntms-hsmm@yahoogroups.com, "Steve" <kb9mwr@> wrote:
> >
> > Yeah, the proposed D-Star to SIP translation, interests me as it
> could
> > prove to be rather powerful.
> >
> > I've been blogging about it, and some other HSMM stuff:
> > http://kb9mwr.blogspot.com/
> >
> > --- In ntms-hsmm@yahoogroups.com, "danielluechtefeld"
> > <d.g.luechtefeld@> wrote:
> > >
> > >
> > > From VE7FFP:
> > >
> > > > > I belong to a disaster preparedness group. We can not afford
> to go
> > > the
> > > > > ID-1 route so this seems like an intereesting alternative
> > >
> > > If you have other, low-speed D-Star radios in your emcomm

> > > architecture, you may be interested in some of the work that the
> > > open source Asterisk PBX-based rtp_Dir project has succeeded in
> building
> > > a
> > > plugin that allow an Asterisk PBX to bridge D-Star, Echolink, and
> > > IRLP, and conventional analog systems with each other.
> > >
> > > Here's a YahooGroup devoted to ham use of Asterisk:
> > >
> > > http://groups.yahoo.com/group/asterisk_radio/
> > > <http://groups.yahoo.com/group/asterisk_radio/join>
> > >
> > >
> > >
> > > [Non-text portions of this message have been removed]
> > >
> >
>

1336. Re: New Member HSMM

Yahoo group: DAWG-HSMM
Date: 2009-01-01 23:14:49 UTC
From: Steve
Topic: 1327 Message: 1336

John,

I recommend that anyone interested in Asterisk, start with PBX in a Flash or the Digium AsteriskNOW, distributions.

These are ready to go CentOS Linux, Asterisk & FreePBX (GUI) bootable ISO installs. I have found that a logical place to start is using a hairpin FXO/FXS adaptor on ones homephone line as a starting place.

Once you have barrels of fun setting up IVR's and so forth, it's time to pick up the O'Riley Asterisk: The Future of Telephony book and get down to the command line and see what else you can do. There are tons of scripts to play with, make nerdvittles.com one of your bookmarks. If you have used Linux before then it will be no time before you should consider playing with non GUI version of Asterisk, and I recommend the Allstar CentOS Install Distribution. This version is custom tailored for two way radio systems using app_rpt modules.

1337. Re: [ntms-hsmm] Re: New Member HSMM

Yahoo group: DAWG-HSMM
Date: 2009-01-02 01:49:32 UTC
From: Will
Topic: 1327 Message: 1337

John,

I will agree with Steve, I run two RF Gateway servers running the Allstar ACID system from that group and they run great.. These Asterisk servers have a lot to offer you must bring your imagination with you when creating these types of servers. Its a lot of fun. There is also another system with GUI interface called XIPAR you can find it at http://www.xelatec.com/xipar/. Go and sign up and learn more what it has to offer. I'll list a few here:

The Xelatec XIPAR project combines the Asterisk? VoIP PBX with radio interface software and hardware that provides the following for Amateur Radio stations and systems:
- A Full Function Multi-Site Linking Repeater Controller
- Touch Tone Command and Control
- Autopatch - Reverse and VOX Operation
- CTCSS Decode/Encode Functions
- Asterisk VoIP Private Branch Telephone Exchange
- Voice Mail and Announcements
- Contact Closure Telemetry and Announcements
- Non-Proprietary Software and Hardware
- Open Source Linux Operating System
- Remote Base PTT Dispatch Client Software for PC's
- A Fully Configurable and Programmable Communications Solution

Steve wrote:
>
> John,
>
> I recommend that anyone interested in Asterisk, start with PBX in a
> Flash or the Digium AsteriskNOW, distributions.
>
> These are ready to go CentOS Linux, Asterisk & FreePBX (GUI) bootable
> ISO installs. I have found that a logical place to start is using a
> hairpin FXO/FXS adaptor on ones homephone line as a starting place.
>
> Once you have barrels of fun setting up IVR's and so forth, it's time
> to pick up the O'Riley Asterisk: The Future of Telephony book and get
> down to the command line and see what else you can do. There are tons
> of scripts to play with, make nerdvittles. com one of your bookmarks.
> If you have used Linux before then it will be no time before you
> should consider playing with non GUI version of Asterisk, and I
> recommend the Allstar CentOS Install Distribution. This version is
> custom tailored for two way radio systems using app_rpt modules.
>
>

1338. Re: New Member HSMM

Yahoo group: DAWG-HSMM
Date: 2009-01-02 05:40:20 UTC
From: J. Beadles
Topic: 1327 Message: 1338

Thanks! I will look over that. For the mean time, I did just get PBX in a Flash running with a pair of softphones. Having network issues that may prevent me from getting commercial SIP termination for a while.

--- In ntms-hsmm@yahoogroups.com, Will <w4wwm@...> wrote:
>
> John,
>
> I will agree with Steve, I run two RF Gateway servers running the
> Allstar ACID system from that group and they run great.. These Asterisk
> servers have a lot to offer you must bring your imagination with you
> when creating these types of servers. Its a lot of fun. There is also
> another system with GUI interface called XIPAR you can find it at
> http://www.xelatec.com/xipar/. Go and sign up and learn more what it has
> to offer. I'll list a few here:
>
> The Xelatec XIPAR project combines the Asterisk® VoIP PBX with radio
> interface software and hardware that provides the following for Amateur
> Radio stations and systems:
> - A Full Function Multi-Site Linking Repeater Controller
> - Touch Tone Command and Control
> - Autopatch - Reverse and VOX Operation
> - CTCSS Decode/Encode Functions
> - Asterisk VoIP Private Branch Telephone Exchange
> - Voice Mail and Announcements
> - Contact Closure Telemetry and Announcements
> - Non-Proprietary Software and Hardware
> - Open Source Linux Operating System
> - Remote Base PTT Dispatch Client Software for PC's
> - A Fully Configurable and Programmable Communications Solution
>
>
>
>
> Steve wrote:
> >
> > John,
> >

> > I recommend that anyone interested in Asterisk, start with PBX
in a
> > Flash or the Digium AsteriskNOW, distributions.
> >
> > These are ready to go CentOS Linux, Asterisk & FreePBX (GUI)
bootable
> > ISO installs. I have found that a logical place to start is
using a
> > hairpin FXO/FXS adaptor on ones homephone line as a starting
place.
> >
> > Once you have barrels of fun setting up IVR's and so forth, it's
time
> > to pick up the O'Riley Asterisk: The Future of Telephony book
and get
> > down to the command line and see what else you can do. There are
tons
> > of scripts to play with, make nerdvittles. com one of your
bookmarks.
> > If you have used Linux before then it will be no time before you
> > should consider playing with non GUI version of Asterisk, and I
> > recommend the Allstar CentOS Install Distribution. This version
is
> > custom tailored for two way radio systems using app_rpt modules.
> >
> >
>

1339. Linksys WRT54G

Yahoo group: DAWG-HSMM
Date: 2009-01-08 17:13:45 UTC
From: Jim, K8COP
Topic: 1339 Message: 1339

Have a question for the group. I have purchased two of the WRT54G wireless routers. They are ver 8.0. I am I better off finding one that is a lower ver. or is ver.8 OK for Amateur use.

Thanks,

Jim, K8COP
Whitehall, MI.

1340. Re: [ntms-hsmm] Linksys WRT54G

Yahoo group: DAWG-HSMM
Date: 2009-01-08 19:51:52 UTC
From: Glenn Currie
Topic: 1339 Message: 1340

Jim,

Versions 1 - 5 run Linux and have twice the memory as later versions.
The later versions just have more refined,
lower power hardware, but I still use many version 1 - 4 units and they
work great.

Get your hands on an older version 1 - 4 WRT54G device, or the WRT54GL.
Quite an amazing little device.

In later versions (5 and on) they went to using VX Works instead of Linux and
were able to cut the memory in half - fine for most consumers, but bad for
experimenters.

For amateur radio use, the WRT54GL (L) for Linux is still sold, new, and is
the preferred version of the 54G for experimenting. I have many of them
and they work very well.

-Glenn
KD5MFW

"Jim, K8COP" <jimk8cop@...> wrote: Have a question for the group. I have purchased two of
the WRT54G
wireless routers. They are ver 8.0. I am I better off finding one
that is a lower ver. or is ver.8 OK for Amateur use.

Thanks,

Jim, K8COP
Whitehall, MI.

[Non-text portions of this message have been removed]

1341. Late Night Reading = WiMax

Yahoo group: DAWG-HSMM
Date: 2009-01-08 21:58:43 UTC
From: Kilgore
Topic: 1341 Message: 1341

Here's an interesting paper on WiMax in the 700Mhz band:

http://www.wimaxforum.org/documents/downloads/comparative_analysis_of_spectrum_alternatives_for_wimax_networks_with_scenarios_based_on_the_us_700_mhz_band.pdf

Sorry, you'll have to copy and paste the URL.

Doug KD5OUG

1342. Possible trade? 900 MHz WaveLAN

Yahoo group: DAWG-HSMM
Date: 2009-01-16 04:10:32 UTC
From: Steve
Topic: 1342 Message: 1342

Hi,
I thought I'd throw this out here in case anyone might be interested in messing with some old NCR 915 MHz WaveLAN ISA (full length) cards.

I have 3 if anyone is interested. Best to contact me using the contact info on my qrz profile.

Steve, kb9mwr

1343. City of Richardson Siren Test

Yahoo group: DAWG-HSMM
Date: 2009-01-26 21:47:36 UTC
From: Kilgore
Topic: 1343 Message: 1343

---Please forward this info to your club members---

The City of Richardson is resuming tests of it's outdoor warning sirens on the First Wednesday of each month at 12:00 noon. There are 22 sirens to be monitored. Siren map is attached. Or go to: http://www.cor.net/WorkArea/showcontent.aspx?id=8778

Ham radio operators are needed to monitor each siren for sound and rotation. Reporting will be done on the 147.12 Mhz repeater. If you will be in Richardson on the First Wednesday at noon, please volunteer to monitor one of the sirens. You do NOT need to be RACES authorized to participate.

Please contact Bud Walton K5HW at 972-783-4751 to let him know which siren you can monitor. On months where the first Monday occurs before the first Wednesday, check-in for siren assignments will be made on the first Monday AFTER a shortened Richardson RACES training net at 9:00pm on 147.12 Mhz.

If you would like to be placed on an Siren Test email reminder list, please send an email to Doug Kilgore KD5OUG <kd5oug@...>.

Doug Kilgore KD5OUG
Ph 972-231-8539

[Non-text portions of this message have been removed]

1344. Large Auction of Test Equipment for Hams

Yahoo group: DAWG-HSMM
Date: 2009-01-30 17:37:36 UTC
From: Kilgore
Topic: 1344 Message: 1344

---- Please give this message widest distribution! ----
Richardson Wireless Klub
Large Auction of Test Equipment

HP Oscilloscopes - Spectrum Analyzers - Network Analyzers
Vector Voltmeters - Frequency Counters

A large quantity of Hewlett Packard test equipment has been donated to the Richardson Wireless Klub by a former club member shutting down a consulting business.

RWK will be holding two auctions to dispose of the equipment.
1. Friday, Feb. 6 Auction closes at 9:00pm (For current RWK members only - You may join or renew membership for $15.)

2. Saturday, Feb. 7 Auction closes at 11:00am (Open to general public - RWK membership not required)

For details, go to http://k5rwk.org/auction.html

*Sale is As-Is-Where-Is basis. No Shipping. There are no guarantees. *
The equipment can be viewed prior to the auctions on Saturday, Jan.31 from 9:30 AM until 2:00 PM.
Only RWK members may place silent bids before Feb. 7.
Payment by cash or personal check - no credit cards.

Location: Public Storage, 500 East Arapaho, Richardson TX 75081
(facing railroad tracks -- Talk-in Frequency 147.12 Mhz)

A private viewing of equipment before the auctions can be arranged by appointment.
Contact Doug Kilgore KD5OUG 972-231-8539
or Dave Russell W2DMR 972-690-9894

Contact Info:
Dave Russell, President
Richardson Wireless Klub
972-690-9894
dmruss@...

[Non-text portions of this message have been removed]

1345. These are the photos of top class hotels see the luxury

Yahoo group: DAWG-HSMM
Date: 2009-02-05 11:12:34 UTC
From: anshikadaga
Topic: 1345 Message: 1345

These are the photos of top class hotels see the luxury.

Hello Friends

Want to see the photos of top class hotels of India from Taj. See the luxury in these photos, awesome photos and luxury at its best - for more photos please visit - http://topclasshotel.blogspot.com/ <http://topclasshotel.blogspot.com/> or click on photos -

<http://topclasshotel.blogspot.com/2009/02/taj-palace-hotels-luxurious-h\
otel-with.html>

<http://topclasshotel.blogspot.com/2009/02/taj-palace-hotels-luxurious-h\
otel-with.html>

To see more photos of this luxury please visit - http://topclasshotel.blogspot.com/ <http://topclasshotel.blogspot.com/>

[Non-text portions of this message have been removed]

1346. Re: [ntms-hsmm] These are the p hotos of top class hotels … see the l uxury

Yahoo group: DAWG-HSMM
Date: 2009-02-05 12:41:58 UTC
From: Kilgore
Topic: 1345 Message: 1346

This member has been removed from list.

Doug KD5OUG
List Owner

anshikadaga wrote:
>
> These are the photos of top class hotels ? see the luxury.
>
> He
>
> __._,_._
>
>
>

1347. wrt54g v6 for sale

Yahoo group: DAWG-HSMM
Date: 2009-02-06 02:34:11 UTC
From: Jerry Karlovich, KD5OM
Topic: 1347 Message: 1347

I have a WRT54G V6 for sale. I plan on listing it on ebay if nobody around here is interested. I've watch them sell on ebay for $35.00 or more, so I'm asking $35.00. I purchased it new from Fry's a year or so ago for $55.00 and since Verizon FiOS has provided me their's since I switched to FiOS, this one is for sale. Contact me at jerry@...

1348. New ARRL Course: Digital Technology for Emergency Communications

Yahoo group: DAWG-HSMM
Date: 2009-02-07 02:59:34 UTC
From: Mark Thompson
Topic: 1348 Message: 1348

http://www.arrl.org/news/stories/2008/11/13/10448/?nc=1

ARRL PUBLICATIONS BULLETIN ??February 6,?2009 www.arrl.org/new
?

Dive into the Digital Radio Universe!
NOW SHIPPING!
The ARRL Digital Technology for Emergency Communications Course CD-ROM
?
In this course, we will introduce you to all the ways Amateur Radio operators are using digital technology as a valuableemergency communications tool.
?Get?answers?to questions such as:
...can you transfer supply lists or personnel assignments between em ergency operations sites?
...can you get critical e-mails to the Internet if a connection goes down?
...can you relay digital images of damage at specific locations?
...can you track the locations of emergency personnel and display them on computer maps?
?and more!
?
?The topics discussed during the course include:=0 A
?
o Packet radio APRS
o Winlink 2000
o IRLP
o EchoLink and WIRES-II
o D-STAR
o APCO25
o HF sound card modes
o Automatic Link Establishment (?ALE?)
?
Illustrations, screenshots, Internet links and audio files make your learning experience exciting and fun!
?
?This course is a great starting point for anyone interested in the public service applications of digital communications technology."
-- Steve Ford, WB8IMY, Course Author and QST?Editor/ARRL Publications Manager
?
Only $49.95
MORE INFO and ORDER NOW>
&nb sp;
Also Available?
ARRL?s HF Digital Handbook ORDER NOW>
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?

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?
ARRL
The national association for AMATEUR RADIO
225 Main Street, Newington, CT

Great Deals on Dell Laptops. Starting at $499.

[Non-text portions of this message have been removed]

1349. ARRL/TAPR 2008 DCC Video Set Now Available

Yahoo group: DAWG-HSMM
Date: 2009-02-07 03:01:05 UTC
From: Mark Thompson
Topic: 1349 Message: 1349

The 2009?ARRL/TAPR DCC (Digital Communications Conference) will again be in Chicago on September 25 - 27.

More?information at www.tapr.org/dcc? Feel free to publish attached advertisement in your club newsletter.?

----- Forwarded Message ----
From: Gary kn4aq@...
Sent: Friday, February 6, 2009 8:34:33 AM
Subject: ARRL/TAPR 2008 DCC Video Set Now Available:

ARRL/TAPR 2008 DCC Video Set Now Available:

The ARRL and TAPR Digital Communications Conference? was a three-day conference held in late September near Chicago. It featured twenty-one presentations from hams on the leading edge of digital communication, including D-STAR, a variety of programs for packet, Winlink2000 and advanced Software Defined Radio.

ARVN:Amateur Radio//Video News captured every minute of the presentations on video,* and now offers them on six DVDs in high quality video and audio. You can order by credit card or PayPal at www.arvideonews.com.

The presentations are grouped on the six DVDs in as logical an order as possible (listed below). You can buy the DVDs individually ($15/ea,plus $3 shipping, $4 international).? Or get whole set for $75 (plus $3/$4 shipping). The complete set saves you $30 over buying them individually, after shipping cost.

Here's how the DVDs are laid out:

DVD 1: Packet

* Nick Luther K9NL ? Weather Data Distribution over AX.25. Thought 1200 bps packet is too slow for images? Nick makes it work.

* John Blowsky KB2SCS ? EcomSCS and GatewaySCS "real e-mail clients" for Packet Radio mail.
* Paul Wiedemeier KE5LKY ? UDPcast for IP Multicast over Packet Radio. Better data distribution to multiple stations.

* Eric Westgard NY9D ? It's the Network: Minnesota Packet/D-STAR Data Network. DVD 2: Software Defined Radio
* Matt Ettus N2MJI ? USRP2 Universal Software Radio Peripheral.
* Paul Rinaldo W4RI ? SDR Outlook. The regulatory environment for SDR.
* Scott Cowling WA2DFI ? HPSDR Update. How HPSDR, TAPR, and AMSAT work together to develop cutting? edge technology, and where things stand now.
* Jerry Shirar N9XR ? Clocking the Data. How crystals and the Pierce oscillator work to stabilize your digital project.
DVD 3: Winlink 2000, D-STAR, APRS

* Victor Poor W5SMM ? Winlink 2000 Update. A complete rebuild to better handle emergency communications.
* Rick Muething KN6KB ? WINMOR, a sound card mode for Winlink. Performance rivaling Pactor II and III; far less expensive.
* Bob Bruninga WB4APR ? APRS Initiatives Since 2004. There's lots more to APRS than position tracking, and Bob has big plans!
* Pete Loveall AE5PL ? D-STAR Uncovered. How D-STAR really works, from one of the K5TIT guys. DVD 4: AMSAT, Publishing

* Steven Bible N7HPR ? SuitSat 2 Update. SuitSat 1 was a rush project, literally "pushed out the door." SuitSat 2 will be a real satellite with serious capabilities.(It'll be pushed out the door, too.)

* Tom Clark K3IO ? AMSAT Eagle GEO. Tom's proposal for a geosynchronous Amateur Radio satellite.Hint: 1200 MHz is now practically DC.

* Larry Wolfgang WR1B ? Writing for QEX, QST. You've developed a great project. Now get paid to tell the world about it.? Here's how.
* Joe Lynch N6CL ? Writing for CQ, CQ VHF. A little bit lighter side of technical writing. DVD 5: Introductory Sessions

* Mel Whitten K0PFX ? HF Digital Voice. A good grounding in WinDRM, FDMDV and the AOR modem digital voice modes for HF.
* Mark Thompson WB9QZB ? D-STAR Voice and Data. Answers your questions on how to operate D-STAR.
* Pete Loveall ? DPRS. Pete wrote DPRS to better utilize the GPS and low-speed data functionality of the DV mode. ICOM makes direct use of it in the newer radios.
* Dan Smith KK7DS ? D-RATS. Dan wrote D-RATS to make D-STAR low-speed text chat multi-platform. Then he threw in the kitchen sink. DVD 6: Sunday Seminar

* Phil Harman VK6APH ? Software Radio "Through the Looking Glass."? This is the full morning presentation of how the HPSDR Mercury receiver was developed. Mercury places the A/D converter at the antenna (after only a band-pass filter). So everything is done in software. Phil says performance is as good or better than the high-end commercial analog receivers.
Again, you can order the DVDs individually, or get the whole set.? www.ARVideoNews.com?

73,
Gary KN4AQ
Producer

* The "D-STAR Night" presentations are not included. That content is similar to the 2008 Dayton Hamvention D-STAR Meetings?, avaialble on DVD from ARVN. Tom Clark's talk at the DCC Banquet is also not included.

ARVN: Amateur Radio//Video News
Gary Pearce KN4AQ
508 Spencer Crest Ct.
Cary, NC 27513
kn4aq@...
919-380-9944
www.ARVideoNews.com

[Non-text portions of this message have been removed]

1350. Re: Late Night Reading = WiMax

Yahoo group: DAWG-HSMM
Date: 2009-02-16 01:05:34 UTC
From: Steve
Topic: 1341 Message: 1350

--- In ntms-hsmm@yahoogroups.com, Kilgore <kilgore1317@...> wrote:
>
> Here's an interesting paper on WiMax in the 700Mhz band:
>
>
http://www.wimaxforum.org/documents/downloads/comparative_analysis_of_spectrum_alternatives_for_wimax_networks_with_scenarios_based_on_the_us_700_mhz_band.pdf
>
> Sorry, you'll have to copy and paste the URL.
>
> Doug KD5OUG
>

Quote:
7.0 Conclusion
There is global interest in allocating portions of the spectrum
between 470 MHz and 862 MHz for broadband wireless services. In
recognition of the value this spectrum offers for WiMAX deployments,
the WiMAX Forum® is developing time division duplex and frequency
division duplex system profiles for this general band to address
market opportunities globally.

--
According to this
http://www.telsima.com/pic/pdf/download/Demo_Brief-50km.pdf Telsima
got 6.5 Mbps out of 3.7 MHz over 30 miles on 450 MHz.

As pointed out in prior messages Telsima has certified a WiMAX
platform for operation at 70 and 33 cm (specifically, 400-1000 MHz),
with selectable channel widths from 1.5 MHZ to 7 MHz:
http://www.telsima.com/index.php?i=84
http://www.reuters.com/article/pressRelease/idUS133153+13-Dec-2007+PRN20071213

Also interesting:
http://www.dailywireless.org/2008/08/12/tv-feeds-through-wimax/

1351. How to roast acorns

Yahoo group: DAWG-HSMM
Date: 2009-02-18 17:31:10 UTC
From: Jerry Karlovich, KD5OM
Topic: 1351 Message: 1351

I just saw this video and thought you micro-wave types might enjoy it;

http://home.pacbell.net/dredmo1/acorns/acorns.wmv

1352. Re: [ntms-hsmm] How to roast acorns

Yahoo group: DAWG-HSMM
Date: 2009-02-18 19:03:53 UTC
From: kevin asato
Topic: 1351 Message: 1352

I sent it around to the guys in my group at work. We have all run into all types of reasons for outages for different types of communications transport equipment (copper, fiber, wireless, point to point microwave). This one seems to be the best yet! Beats having to take out a tree trimmer every now and then to clear the path!

73,
kevin
kc6pob

--- On Wed, 2/18/09, Jerry Karlovich, KD5OM <kd5oldman@...> wrote:
From: Jerry Karlovich, KD5OM <kd5oldman@...>
Subject: [ntms-hsmm] How to roast acorns
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, February 18, 2009, 9:31 AM

I just saw this video and thought you micro-wave types might enjoy it;

http://home. pacbell.net/ dredmo1/acorns/ acorns.wmv

[Non-text portions of this message have been removed]

1353. Re: [ntms-hsmm] How to roast acorns

Yahoo group: DAWG-HSMM
Date: 2009-02-18 19:42:11 UTC
From: John Champa
Topic: 1351 Message: 1353

I don't think my 2W BDA could cook too many nuts! (HI)

73,
John K8OCL

>
>

--
Nisciune nasce imparate

[Non-text portions of this message have been removed]

1354. ARBONET Meeting

Yahoo group: DAWG-HSMM
Date: 2009-02-18 20:08:11 UTC
From: John Champa
Topic: 1354 Message: 1354

Glenn, Doug,

I can't begin to tell you what a wonderful pleasure it was to break bread with some fellow HSMM radio types this past weekend. Hope we can do that again soon! HAMCOM?

73,
John K8OCL

--
Nisciune nasce imparate

[Non-text portions of this message have been removed]

1355. Re: [ntms-hsmm] How to roast acorns

Yahoo group: DAWG-HSMM
Date: 2009-02-18 20:23:38 UTC
From: Bob Diepenbrock
Topic: 1351 Message: 1355

If you applied 2W long enough, something will warm up. :)

You are going to need more power my friend.

_____
From: John Champa <radioskyart@...>
To: ntms-hsmm@yahoogroups.com
Sent: Wednesday, February 18, 2009 1:42:11 PM
Subject: Re: [ntms-hsmm] How to roast acorns

I don't think my 2W BDA could cook too many nuts! (HI)

73,
John K8OCL

>
>

--
Nisciune nasce imparate

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1356. Re: [ntms-hsmm] ARBONET Meeting

Yahoo group: DAWG-HSMM
Date: 2009-02-18 20:39:32 UTC
From: Glenn Currie
Topic: 1354 Message: 1356

John, Doug,

Same here. Been meaning to send an email but have been hammered
with work stuff since I got home. Thanks for lunch / dinner John.
The brisket was good. I always enjoy Texas BBQ. Each place has their
own cooking methods and sauce, so it always good, but also are variations
on a theme.

I have not had much time to discuss things with the local HSMM guys,
but I have posted my initial proposal for mesh node on ARBONET-4,
and a summary of the meeting.

If the pilots will allow it, mesh nodes on the chase planes would be great.
They have altitude limits, but up to a point, they would form an airborne
mesh relaying all camera signals to all the nodes they could link with. If
the planes are close enough to the balloon to link, they would act as a relay
between the balloon and the ground crews below the plane. This should
increase the footprint of mesh availability in that the signal would be available,
from 2 aircraft plus the balloon.

Doug, you and your crew have been out in the field with the HSMM gear and
made it work. I have read all the HSMM news and photos posted on the NTMS
site by N5OOM. There is a lot of good stuff there. I had a specific question
though, I believe you said you use DD-WRT firmware. There are several
excellent 3rd part firmware loads available. Are there any specific features
that the firmware you are using provides over the factory firmware?

A lot of basic home users of Wi-Fi users would not care, but if there are specific
features of the WRT54GL firmware you use, that you find handy, I would be
interested in hearing about them.

-Glenn
KD5MFW

John Champa <radioskyart@...> wrote: Glenn, Doug,

I can't begin to tell you what a wonderful pleasure it was to break bread
with some fellow HSMM radio types this past weekend. Hope we can do that
again soon! HAMCOM?

73,
John K8OCL

--
Nisciune nasce imparate

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1357. Re: [ntms-hsmm] ARBONET Meeting

Yahoo group: DAWG-HSMM
Date: 2009-02-18 23:39:41 UTC
From: Kipton Moravec
Topic: 1354 Message: 1357

On Wed, 2009-02-18 at 12:39 -0800, Glenn Currie wrote:
> John, Doug,
>
> Doug, you and your crew have been out in the field with the HSMM gear and
> made it work. I have read all the HSMM news and photos posted on the NTMS
> site by N5OOM. There is a lot of good stuff there. I had a specific question
> though, I believe you said you use DD-WRT firmware. There are several
> excellent 3rd part firmware loads available. Are there any specific features
> that the firmware you are using provides over the factory firmware?
>
> A lot of basic home users of Wi-Fi users would not care, but if there are specific
> features of the WRT54GL firmware you use, that you find handy, I would be
> interested in hearing about them.
>
> -Glenn
> KD5MFW

Let me answer.

The standard factory software assumes that you are connected to the
Internet by a wire, and that you can add other users from the WiFi port,
or the 4 LAN ports.

It does not let you route to the Internet over the WiFi connection.
That is the biggest problem.

The factory software will let you turn the Router into a dumb access
point, but then you can not route with it. and you can not hook to it
with a WiFi connection.

The third-party software lets you do both at the same time.

So if you have 4 routers A, B, C, D

A ---- B ---- C ---- D

And A can see B, but not C or D
B can see A and C but not D
C can see B and D but not A
And D can see C but not A or B

With the third-party firmware if A is the only one with Internet
connection, any PC talking to any of the routers A, B, C, or D with Wifi
or Wired can have Internet access. Also if desired, any PC can talk to
any other PC attached to any of the other routers.

The big advantage to DD-WRT is the web interface for configuration. Some of the others have a command line interface, so you have to have the manual next to you to know what you have to type in. While not real easy, DD-WRT is much easier.

It is also being supported, and new updates are released about once a year. Some of the third-party versions are no longer being supported. The DD-WRT also supports a number of different routers. Check the list before you buy.

I personally like the WRT54GL, it is the WRT54G Version 4. After version 4 they shrunk the SRAM and the FLASH in the device, which limits the amount of software you can load. (it also runs on 12V, other routers come in with 7.5, 5, or 3.3V which makes it more difficult for outdoor operations where everything else is 12V.)

In all cases the documentation could be better, but there is some on the DD-WRT website.

Kip
--
Kipton Moravec AE5IB
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1358. Re: [ntms-hsmm] ARBONET Meeting

Yahoo group: DAWG-HSMM
Date: 2009-02-19 01:25:04 UTC
From: jbeadles@pobox.com
Topic: 1354 Message: 1358

The 3rd party firmwares usually provide for WDS (wireless distribution system) functionality.
This is the basic bridging functionality that lets us bridge these things while still being in AP
mode and beaconing a call sign ssid. Basically, it acts as an ethernet bridge between APs by
using a packet that includes 4 mac addresses (source, target, AP 1 and AP2), if I remember correctly.

Also, they generally provide for more fine control of the various packet parameters. I don't
have my text book, so I can't discuss them in detail, but let's see if I can say something that
makes sense.

As you know, data is transmitted in packets across the wireless link. It is more efficient to
send fewer, larger data packets than more, smaller packets because each packet has to
have header information which takes time to transmit, eating your bandwidth. However, for a
given amount of transmit power, the longer the radio bridge, the greater the likelihood that the
packet will be disrupted by ambient noise, and have to be retransmitted. The smaller the
packet, the greater the likelihood that it will be successfully transmitted between noise bursts,
and the shorter time to retransmit. For any given path length, there should be an optimum
value for the packet segmentation length.

Some of the firmwares will allow you to modify parameters like this, or possibly set a
"distance" value which sets that parameter for you. There are other wifi parameters that you
can do tricks with, as long as you have access to them.

On 18 Feb 2009 at 12:39, Glenn Currie wrote:

> Doug, you and your crew have been out in the field with the HSMM gear and
> made it work. I have read all the HSMM news and photos posted on the NTMS
> site by N5OOM. There is a lot of good stuff there. I had a specific question
> though, I believe you said you use DD-WRT firmware. There are several
> excellent 3rd part firmware loads available. Are there any specific features
> that the firmware you are using provides over the factory firmware?
>
> A lot of basic home users of Wi-Fi users would not care, but if there are specific
> features of the WRT54GL firmware you use, that you find handy, I would be
> interested in hearing about them.

1359. Re: [ntms-hsmm] ARBONET Meeting

Yahoo group: DAWG-HSMM
Date: 2009-02-19 02:44:02 UTC
From: Glenn Currie
Topic: 1354 Message: 1359

Kipton,

Thanks for the information. We roll our own firmware based on Open-Wrt.
it is quite a chore and takes a lot of time. We focus on the WRT54GL as
well. I have some of the older versions and they work, but use more power.

We need the memory space
of the version 1 - 4. We have found that the power subsystem on the
WRT54GL is much more efficient and forgiving than previous models.
It seems to run OK on 3.5 - 20 VDC with no problems and pulls less
than 3 watts at whatever voltage it runs on. It is great for battery powered
situations.

I know there is a lot of good work
put into the various 3rd party firmware loads, I just don't have the time to
load and test them all, so your information is most helpful. With the nose
so close to the grind stone, it is easy to miss some of the good features
others have come up with. The WRT54GL is really a versatile device and
I am sure we still have not figured out everything it can do.

It is hard to find people that have put the gear to use in the field and
I value their experience and advice.

Thanks,

-Glenn

Kipton Moravec <kip@...> wrote: On Wed, 2009-02-18 at 12:39 -0800, Glenn Currie wrote:
> John, Doug,
>
> Doug, you and your crew have been out in the field with the HSMM gear and
> made it work. I have read all the HSMM news and photos posted on the NTMS
> site by N5OOM. There is a lot of good stuff there. I had a specific question
> though, I believe you said you use DD-WRT firmware. There are several
> excellent 3rd part firmware loads available. Are there any specific features
> that the firmware you are using provides over the factory firmware?
>
> A lot of basic home users of Wi-Fi users would not care, but if there are specific
> features of the WRT54GL firmware you use, that you find handy, I would be
> interested in hearing about them.
>
> -Glenn
> KD5MFW

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It does not let you route to the Internet over the WiFi connection. That is the biggest problem.

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And A can see B, but not C or D
B can see A and C but not D
C can see B and D but not A
And D can see C but not A or B

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It is also being supported, and new updates are released about once a year. Some of the third-party versions are no longer being supported. The DD-WRT also supports a number of different routers. Check the list before you buy.

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In all cases the documentation could be better, but there is some on the DD-WRT website.

Kip
--
Kipton Moravec AE5IB
"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

[Non-text portions of this message have been removed]

1360. Re: [ntms-hsmm] ARBONET Meeting

Yahoo group: DAWG-HSMM
Date: 2009-02-19 03:09:12 UTC
From: Glenn Currie
Topic: 1354 Message: 1360

John,

Again, thanks for the notes from the field experience. Most concise and useful and not in the manual. We are interested in any adjustments that can be made for longer distance links. Your explanation makes sense. I will share the info with the local HSMM folks.

These routers were designed to link in a house or a building. They expect large buildings to have lots of them to keep from having dead spots, so they are not looking to send RF anywhere near as far as we would like to, so the timing parameters are of great interest.

I have seen adjustments for RTS/CTS and Fragmentation Threshold on some gear and not others. Linksys and other vendors might have hardware that has the capability to have these parameters changed, they just do not bother to make it adjustable by the user.

Much of what is known about how wireless routers like the WRT54G and similar devices comes from working with GPL code released by the vendor, but if the vendor did not write code to provide access to all the hardware adjustments, it is not clear if additional adjustments can be made or not. There is no example of how to access some features, and the chip vendors only seem to provide such information to their larger customers.

Anyway, that is one reason I keep asking around about features offered by the 3rd party firmware suppliers - sometimes they have figured out how to access hardware features that are not inherently documented by the GPL code the vendor releases.

Keep up the HSMM work. It is most helpful to have some other hams that have done significant field work to trade notes with. There is so much that can be done with this gear, and only limited time to investigate it.

I talked to several people including KD5OUG about HSMM work. I will post out a few paragraphs of information we have collected, with the hopes it will be of help. There is a lot of stuff on the net about mods to the WRT54G. Even trying to sort through all the postings takes a lot of time, and the quality of the information can vary greatly.

Today I signed up to give a presentation on our ARES-MESH work at HamCom, so I will need to collect my stacks of notes, sort through them and build a presentation. We have some good stuff working, but it just opens our eyes to how much more we can do, so it is a work in progress.

Thanks for your help, long ago at Summerfest, when you took time to show me your Rootenna. I have a couple of them now.

-Glenn
KD5MFW

jbeadles@... wrote: The 3rd party firmwares usually provide for WDS (wireless distribution system) functionality.
This is the basic bridging functionality that lets us bridge these things while still being in AP
mode and beaconing a call sign ssid. Basically, it acts as an ethernet bridge between APs by
using a packet that includes 4 mac addresses (source, target, AP 1 and AP2), if I remember correctly.

Also, they generally provide for more fine control of the various packet parameters. I don't
have my text book, so I can't discuss them in detail, but let's see if I can say something that
makes sense.

As you know, data is transmitted in packets across the wireless link. It is more efficient to
send fewer, larger data packets than more, smaller packets because each packet has to
have header information which takes time to transmit, eating your bandwidth. However, for a
given amount of transmit power, the longer the radio bridge, the greater the likelihood that the
packet will be disrupted by ambient noise, and have to be retransmitted. The smaller the
packet, the greater the likelihood that it will be successfully transmitted between noise bursts,
and the shorter time to retransmit. For any given path length, there should be an optimum
value for the packet segmentation length.

Some of the firmwares will allow you to modify parameters like this, or possibly set a
"distance" value which sets that parameter for you. There are other wifi parameters that you
can do tricks with, as long as you have access to them.

On 18 Feb 2009 at 12:39, Glenn Currie wrote:

> Doug, you and your crew have been out in the field with the HSMM gear and
> made it work. I have read all the HSMM news and photos posted on the NTMS
> site by N5OOM. There is a lot of good stuff there. I had a specific question
> though, I believe you said you use DD-WRT firmware. There are several
> excellent 3rd part firmware loads available. Are there any specific features
> that the firmware you are using provides over the factory firmware?
>
> A lot of basic home users of Wi-Fi users would not care, but if there are specific
> features of the WRT54GL firmware you use, that you find handy, I would be
> interested in hearing about them.

[Non-text portions of this message have been removed]

1361. Cornyn's new bill: retain those log files

Yahoo group: DAWG-HSMM
Date: 2009-02-21 11:51:22 UTC
From: Robert Ellis
Topic: 1361 Message: 1361

Our very own Mr. Cornyn, has sponsored a new bill that may affect how you
treat your hsmm log files. (S.436)

"A provider of an electronic communication service or remote computing
service shall retain for a period of at least two years all records or other
information pertaining to the identity of a user of a temporarily assigned
network address the service assigns to that user."

I guess that this also affects dstar repeaters and wl2k gateways (not just
the wifi you use for non-ham purposes).

The bill might spur paper sales, as folks print off their log files with 132
lines per page.

robert

1362. Re: [ntms-hsmm] Cornyn's new bill: retain those log files

Yahoo group: DAWG-HSMM
Date: 2009-02-21 13:05:09 UTC
From: John Barrett
Topic: 1361 Message: 1362

"provider of service" implies commercial provider -- is there a link to the bill available so we can better determine what the language means in this case ??

Tracking network addresses assigned is a waste of time on systems that employ a NAT gateway (most home wifi systems for instance). Without usage logs to go along with the address data, there is no way to trace any given activity back to a specific user.

So, this can only be effectively applied to systems that assign publicly routable IP addresses to end users, and to systems that have user authentication in the first place.

Robert Ellis wrote:
>
>
> Our very own Mr. Cornyn, has sponsored a new bill that may affect how
> you
> treat your hsmm log files. (S.436)
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> "A provider of an electronic communication service or remote computing
> service shall retain for a period of at least two years all records or
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> information pertaining to the identity of a user of a temporarily
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> network address the service assigns to that user."
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> the wifi you use for non-ham purposes).
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> The bill might spur paper sales, as folks print off their log files
> with 132
> lines per page.
>
> robert
>
>

1363. Re: [ntms-hsmm] Cornyn's new bill: retain those log files

Yahoo group: DAWG-HSMM
Date: 2009-02-21 20:09:10 UTC
From: John Champa
Topic: 1361 Message: 1363

I do not think this applies to Part 97. It is for common carriers only.

John K8OCL

On Sat, Feb 21, 2009 at 1:05 PM, John Barrett <ke5crp1@...> wrote:

> "provider of service" implies commercial provider -- is there a link to
> the bill available so we can better determine what the language means in
> this case ??
>
> Tracking network addresses assigned is a waste of time on systems that
> employ a NAT gateway (most home wifi systems for instance). Without
> usage logs to go along with the address data, there is no way to trace
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> >
> > Our very own Mr. Cornyn, has sponsored a new bill that may affect how
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> > treat your hsmm log files. (S.436)
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> > service shall retain for a period of at least two years all records or
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> > with 132
> > lines per page.
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> > robert
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Nisciune nasce imparate

[Non-text portions of this message have been removed]

1364. Re: [ntms-hsmm] Cornyn's new bill: retain those log files

Yahoo group: DAWG-HSMM
Date: 2009-02-21 20:56:24 UTC
From: Mars Reed
Topic: 1361 Message: 1364

SEC.5. Retention of Records By Electronic Service Providers.
Senate Bill S.436

Section 2703 of title 18, United States Code
<http://www.law.cornell.edu/usc-cgi/newurl?type=titlesect&title=18§ion=2703>,
is amended by adding at the end the
following:

?(h) Retention of Certain Records and Information- A provider of an
electronic
communication service or remote computing service shall retain for a
period of
at least two years all records or other information pertaining to the
identity of a
user of a temporarily assigned network address the service assigns to
that user.?.

(b) Definitions- As used in this section--

(1) the term ?Internet content hosting provider? means a service that--
(A) stores, through electromagnetic or other means, electronic data,
including the content of web pages, electronic mail, documents, images,
audio and video files, online discussion boards, and weblogs; and
(B) makes such data available via the Internet; and

(2) the term ?email service provider? means a person that--
(A) provides a service, using the Internet, for the transmission, receipt,
storage, and retrieval, by registered users, of electronic mail
messages; and
(B) receives the content of, and recipient list for, electronic mail
messages
that it transmits, receives, or stores for the person or entity
procuring such services.

http://www.govtrack.us/congress/billtext.xpd?bill=s111-436

If it attaches to the Internet it will be effected by enactment of
S.436, if you allow
someone to use your Wireless Internet Hotspot you will need to maintain
a record.

If one only has a Intranet established with no physical presence on the
public Internet
there will not a be a problem. At least as the Senate Bill is presented
currently.

The way it is set up it will apply to such things as WINLINK email
gateways, since
WINLINK has a gateway to the Internet.

Keep those network logs handy.

Mars

John Champa wrote:
>
> I do not think this applies to Part 97. It is for common carriers only.
>
> John K8OCL
>
> On Sat, Feb 21, 2009 at 1:05 PM, John Barrett <ke5crp1@...
> <mailto:ke5crp1%40verizon.net>> wrote:
>
> > "provider of service" implies commercial provider -- is there a link to
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> > Robert Ellis wrote:
> > >
> > >
> > > Our very own Mr. Cornyn, has sponsored a new bill that may affect how
> > > you
> > > treat your hsmm log files. (S.436)
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> > > "A provider of an electronic communication service or remote computing
> > > service shall retain for a period of at least two years all records or
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> > > I guess that this also affects dstar repeaters and wl2k gateways (not
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> > > The bill might spur paper sales, as folks print off their log files
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> > > robert
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> [Non-text portions of this message have been removed]
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1365. Re: [ntms-hsmm] Cornyn's new bill: retain those log files

Yahoo group: DAWG-HSMM
Date: 2009-02-21 22:48:58 UTC
From: John Barrett
Topic: 1361 Message: 1365

1. Winlink does not assign IP addresses to the radio users connecting, therefore there is no information of the type described to log.

2. As a "hotspot operator" (I have a limited number of people that are allowed to use my AP), I can NOT assign them publicly routable IP addresses since both my hardline and wifi networks pass through a NAT router to reach the internet, therefore everyone shares a single IP address AS FAR AS ANYONE ON THE INTERNET IS ABLE TO TELL. Again there is no information of the type described to log.

3. I would hope that a DSTAR internet gateway would use NAT techniques as well -- cannot see the operator of a dstar repeater requesting a block of IP addresses from their service provider, such that the gateway could provide unique publicly routable IP to each connected user.

IMHO the language of the bill needs to be changed to reflect the technical impossibility of logging information which doesn't exist, so we don't run into officious busy bodies trying to enforce laws that cannot be enforced.

Mars Reed wrote:
> SEC.5. Retention of Records By Electronic Service Providers.
> Senate Bill S.436
>
> Section 2703 of title 18, United States Code
> <http://www.law.cornell.edu/usc-cgi/newurl?type=titlesect&title=18§ion=2703>,
> is amended by adding at the end the
> following:
>
> ?(h) Retention of Certain Records and Information- A provider of an
> electronic
> communication service or remote computing service shall retain for a
> period of
> at least two years all records or other information pertaining to the
> identity of a
> user of a temporarily assigned network address the service assigns to
> that user.?.
>
> ----------
> (b) Definitions- As used in this section--
>
> (1) the term ?Internet content hosting provider? means a service that--
> (A) stores, through electromagnetic or other means, electronic data,
> including the content of web pages, electronic mail, documents, images,
> audio and video files, online discussion boards, and weblogs; and
> (B) makes such data available via the Internet; and

>
> (2) the term ?email service provider? means a person that--
> (A) provides a service, using the Internet, for the transmission, receipt,
> storage, and retrieval, by registered users, of electronic mail
> messages; and
> (B) receives the content of, and recipient list for, electronic mail
> messages
> that it transmits, receives, or stores for the person or entity
> procuring such services.
>
> http://www.govtrack.us/congress/billtext.xpd?bill=s111-436
>
>
> If it attaches to the Internet it will be effected by enactment of
> S.436, if you allow
> someone to use your Wireless Internet Hotspot you will need to maintain
> a record.
>
> If one only has a Intranet established with no physical presence on the
> public Internet
> there will not a be a problem. At least as the Senate Bill is presented
> currently.
>
> The way it is set up it will apply to such things as WINLINK email
> gateways, since
> WINLINK has a gateway to the Internet.
>
> Keep those network logs handy.
>
> Mars
>
>
> John Champa wrote:
>
>> I do not think this applies to Part 97. It is for common carriers only.
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>> John K8OCL
>>
>> On Sat, Feb 21, 2009 at 1:05 PM, John Barrett <ke5crp1@...
>> <mailto:ke5crp1%40verizon.net>> wrote:
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1366. Re: [ntms-hsmm] Cornyn's new bill: retain those log files

Yahoo group: DAWG-HSMM
Date: 2009-02-21 23:39:37 UTC
From: Mars Reed
Topic: 1361 Message: 1366

It's more of one those carte blanche bills that is so vague that it could be applied to just about anything. It mentions "temporarily assigned network addresses" so that goes into play with the NAT and how the bill sponsor plans for the recording of information is to be gathered and maintained.

If it attaches to the Internet, bureaucracy will find some way that it will need to be logged, even if it is NATed. Even the satellite based Internet providers that use private IP addresses between the NOC and the enduser will still have to find ways tag the user information if the proposal is made statutory. Definitely will not be a easy task for anyone.

John Barrett wrote:
> 1. Winlink does not assign IP addresses to the radio users connecting,
> therefore there is no information of the type described to log.
>
> 2. As a "hotspot operator" (I have a limited number of people that are
> allowed to use my AP), I can NOT assign them publicly routable IP
> addresses since both my hardline and wifi networks pass through a NAT
> router to reach the internet, therefore everyone shares a single IP
> address AS FAR AS ANYONE ON THE INTERNET IS ABLE TO TELL. Again there is
> no information of the type described to log.
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> 3. I would hope that a DSTAR internet gateway would use NAT techniques
> as well -- cannot see the operator of a dstar repeater requesting a
> block of IP addresses from their service provider, such that the gateway
> could provide unique publicly routable IP to each connected user.
>
> IMHO the language of the bill needs to be changed to reflect the
> technical impossibility of logging information which doesn't exist, so
> we don't run into officious busy bodies trying to enforce laws that
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> Mars Reed wrote:
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>> (B) receives the content of, and recipient list for, electronic mail
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>> http://www.govtrack.us/congress/billtext.xpd?bill=s111-436
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>> If it attaches to the Internet it will be effected by enactment of
>> S.436, if you allow
>> someone to use your Wireless Internet Hotspot you will need to maintain
>> a record.
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>> If one only has a Intranet established with no physical presence on the
>> public Internet
>> there will not a be a problem. At least as the Senate Bill is presented
>> currently.
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>> The way it is set up it will apply to such things as WINLINK email
>> gateways, since
>> WINLINK has a gateway to the Internet.
>>
>> Keep those network logs handy.
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>>> John K8OCL
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>>>>> robert
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1367. Re: [ntms-hsmm] Cornyn's new bill: retain those log files

Yahoo group: DAWG-HSMM
Date: 2009-02-21 23:49:48 UTC
From: John Barrett
Topic: 1361 Message: 1367

OK -- I didnt read the whole thing -- but tell me -- an officer/agent comes to you and asks for info concerning a specific IP address -- you run nat with 100s of users -- the agent has ONLY the public address -- how does that identify the specific user ?? You can hand over the entire log but that doesnt tell the officer/agent anything useful.... And if you dont run a login based system, you dont know who got the IP address to begin with (my private AP for instance)

This is simply unenforceable for anything except commercial providers -- unless router firmware is drastically changed -- where is my bailout to finance this hardware change to meet the new requirements ??

Mars Reed wrote:
> It's more of one those carte blanche bills that is so vague that it
> could be applied to just about
> anything. It mentions "temporarily assigned network addresses" so that
> goes into play with
> the NAT and how the bill sponsor plans for the recording of information
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>> could provide unique publicly routable IP to each connected user.
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>> we don't run into officious busy bodies trying to enforce laws that
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>>> http://www.govtrack.us/congress/billtext.xpd?bill=s111-436
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>>> The way it is set up it will apply to such things as WINLINK email
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>>>>>> network address the service assigns to that user."
>>>>>>
>>>>>> I guess that this also affects dstar repeaters and wl2k gateways (not
>>>>>> just
>>>>>> the wifi you use for non-ham purposes).
>>>>>>
>>>>>> The bill might spur paper sales, as folks print off their log files
>>>>>> with 132
>>>>>> lines per page.
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>>>>>> robert
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>>>> [Non-text portions of this message have been removed]
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1368. Re: [ntms-hsmm] Cornyn's new bill: retain those log files

Yahoo group: DAWG-HSMM
Date: 2009-02-22 00:08:01 UTC
From: Mars Reed
Topic: 1361 Message: 1368

The sad part about the way it is worded, it will place a very extreme burden on anyone that provides a service (be it a commercial, public or private service), if it touches the Internet some how the records will need to be kept. How they plan to enforce the record keeping isn't apparent, but I'm sure that there will be those that will use it as a means to take storage devices in the name of "investigation purposes."

The neighborhood hotspot may end up being a thing of the past. Talk about a statutory nightmare ahead when it comes to records documentation.

John Barrett wrote:
> OK -- I didnt read the whole thing -- but tell me -- an officer/agent
> comes to you and asks for info concerning a specific IP address -- you
> run nat with 100s of users -- the agent has ONLY the public address --
> how does that identify the specific user ?? You can hand over the entire
> log but that doesnt tell the officer/agent anything useful.... And if
> you dont run a login based system, you dont know who got the IP address
> to begin with (my private AP for instance)
>
> This is simply unenforceable for anything except commercial providers --
> unless router firmware is drastically changed -- where is my bailout to
> finance this hardware change to meet the new requirements ??
>
> Mars Reed wrote:
>
>> It's more of one those carte blanche bills that is so vague that it
>> could be applied to just about
>> anything. It mentions "temporarily assigned network addresses" so that
>> goes into play with
>> the NAT and how the bill sponsor plans for the recording of information
>> is to be gathered and
>> maintained.
>>
>> If it attaches to the Internet, bureaucracy will find some way that it
>> will need to be logged, even
>> if it is NATed. Even the satellite based Internet providers that use
>> private IP addresses between
>> the NOC and the enduser will still have to find ways tag the user
>> information if the proposal is made
>> statutory. Definitely will not be a easy task for anyone.
>>
>>
>>
>> John Barrett wrote:
>>

>>
>>> 1. Winlink does not assign IP addresses to the radio users connecting,
>>> therefore there is no information of the type described to log.
>>>
>>> 2. As a "hotspot operator" (I have a limited number of people that are
>>> allowed to use my AP), I can NOT assign them publicly routable IP
>>> addresses since both my hardline and wifi networks pass through a NAT
>>> router to reach the internet, therefore everyone shares a single IP
>>> address AS FAR AS ANYONE ON THE INTERNET IS ABLE TO TELL. Again there is
>>> no information of the type described to log.
>>>
>>> 3. I would hope that a DSTAR internet gateway would use NAT techniques
>>> as well -- cannot see the operator of a dstar repeater requesting a
>>> block of IP addresses from their service provider, such that the gateway
>>> could provide unique publicly routable IP to each connected user.
>>>
>>> IMHO the language of the bill needs to be changed to reflect the
>>> technical impossibility of logging information which doesn't exist, so
>>> we don't run into officious busy bodies trying to enforce laws that
>>> cannot be enforced.
>>>
>>>
>>> Mars Reed wrote:
>>>
>>>
>>>
>>>> SEC.5. Retention of Records By Electronic Service Providers.
>>>> Senate Bill S.436
>>>>
>>>> Section 2703 of title 18, United States Code
>>>> <http://www.law.cornell.edu/usc-cgi/newurl?type=titlesect&title=18?ion=2703>,
>>>> is amended by adding at the end the
>>>> following:
>>>>
>>>> ?(h) Retention of Certain Records and Information- A provider of an
>>>> electronic
>>>> communication service or remote computing service shall retain for a
>>>> period of
>>>> at least two years all records or other information pertaining to the
>>>> identity of a
>>>> user of a temporarily assigned network address the service assigns to
>>>> that user.?.
>>>>
>>>> ----------
>>>> (b) Definitions- As used in this section--
>>>>
>>>> (1) the term ?Internet content hosting provider? means a service that--
>>>> (A) stores, through electromagnetic or other means, electronic data,
>>>> including the content of web pages, electronic mail, documents, images,
>>>> audio and video files, online discussion boards, and weblogs; and

>>>> (B) makes such data available via the Internet; and
>>>>
>>>> (2) the term ?email service provider? means a person that--
>>>> (A) provides a service, using the Internet, for the transmission, receipt,
>>>> storage, and retrieval, by registered users, of electronic mail
>>>> messages; and
>>>> (B) receives the content of, and recipient list for, electronic mail
>>>> messages
>>>> that it transmits, receives, or stores for the person or entity
>>>> procuring such services.
>>>>
>>>> http://www.govtrack.us/congress/billtext.xpd?bill=s111-436
>>>>
>>>>
>>>> If it attaches to the Internet it will be effected by enactment of
>>>> S.436, if you allow
>>>> someone to use your Wireless Internet Hotspot you will need to maintain
>>>> a record.
>>>>
>>>> If one only has a Intranet established with no physical presence on the
>>>> public Internet
>>>> there will not a be a problem. At least as the Senate Bill is presented
>>>> currently.
>>>>
>>>> The way it is set up it will apply to such things as WINLINK email
>>>> gateways, since
>>>> WINLINK has a gateway to the Internet.
>>>>
>>>> Keep those network logs handy.
>>>>
>>>> Mars
>>>>
>>>>
>>>> John Champa wrote:
>>>>
>>>>
>>>>
>>>>
>>>>
>>>>> I do not think this applies to Part 97. It is for common carriers only.
>>>>>
>>>>> John K8OCL
>>>>>
>>>>> On Sat, Feb 21, 2009 at 1:05 PM, John Barrett <ke5crp1@...
>>>>> <mailto:ke5crp1%40verizon.net>> wrote:
>>>>>
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>>>>>
>>>>>>> "provider of service" implies commercial provider -- is there a link to

>>>>>> the bill available so we can better determine what the language means in
>>>>>> this case ??
>>>>>>
>>>>>> Tracking network addresses assigned is a waste of time on systems that
>>>>>> employ a NAT gateway (most home wifi systems for instance). Without
>>>>>> usage logs to go along with the address data, there is no way to trace
>>>>>> any given activity back to a specific user.
>>>>>>
>>>>>> So, this can only be effectively applied to systems that assign publicly
>>>>>> routable IP addresses to end users, and to systems that have user
>>>>>> authentication in the first place.
>>>>>>
>>>>>>
>>>>>> Robert Ellis wrote:
>>>>>>
>>>>>>
>>>>>>
>>>>>>
>>>>>>>> Our very own Mr. Cornyn, has sponsored a new bill that may affect how
>>>>>>>> you
>>>>>>>> treat your hsmm log files. (S.436)
>>>>>>>>
>>>>>>>> "A provider of an electronic communication service or remote computing
>>>>>>>> service shall retain for a period of at least two years all records or
>>>>>>>> other
>>>>>>>> information pertaining to the identity of a user of a temporarily
>>>>>>>> assigned
>>>>>>>> network address the service assigns to that user."
>>>>>>>>
>>>>>>>> I guess that this also affects dstar repeaters and wl2k gateways (not
>>>>>>>> just
>>>>>>>> the wifi you use for non-ham purposes).
>>>>>>>>
>>>>>>>> The bill might spur paper sales, as folks print off their log files
>>>>>>>> with 132
>>>>>>>> lines per page.
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>>>> Yahoo! Groups Links
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[Non-text portions of this message have been removed]

1369. Re: Cornyn's new bill: retain those log files

Yahoo group: DAWG-HSMM
Date: 2009-02-23 19:08:07 UTC
From: rddunnin@rockwellcollins.com
Topic: 1361 Message: 1369

From Atlas Shrugged by Ayn Rand:

"There's no way to rule innocent men. The only power any government has is the
power to crack down on criminals. Well, when there aren't enough criminals, one
makes them. One declares so many things to be a crime that it becomes impossible
for men to live without breaking laws. Who wants a nation of law-abiding citizens?
What's there in that for anyone? But just pass the kind of laws that can neither be
observed nor enforced nor objectively interpreted and you create a nation of
law-breakers"

Though I hold some metaphysical complaints against Rand and her followers I
have to admit that when she was right, she was right. This, is a quote that
illuminates the inherent danger in arbitrary, capricious, and unenforceable laws.
I take no comfort whatsoever in a law that is poorly written and unenforceable as
it is ripe for use as a bludgeon to be applied to those who find themselves cross-
wise with the powers that be.

RD

[Non-text portions of this message have been removed]

1370. Re: Late Night Reading = WiMax

Yahoo group: DAWG-HSMM
Date: 2009-03-25 21:21:28 UTC
From: Glenn Dixon
Topic: 1341 Message: 1370

--- In ntms-hsmm@yahoogroups.com, Kilgore <kilgore1317@...> wrote:
>
> Here's an interesting paper on WiMax in the 700Mhz band:
>
> http://www.wimaxforum.org/documents/downloads/comparative_analysis_of_spectrum_alternatives_for_wimax_networks_with_scenarios_based_on_the_us_700_mhz_band.pdf
>
> Sorry, you'll have to copy and paste the URL.
>
> Doug KD5OUG
>

http://tinyurl.com/cwjhfn

1371. Re: WiFi In Motion

Yahoo group: DAWG-HSMM
Date: 2009-03-26 01:46:00 UTC
From: Glenn Dixon
Topic: 1330 Message: 1371

I've been wondering about this since I first heard of HSMM - in my mind I was imagining that I could access the internet while on the road, something like this:

laptop > AP/router > radio > antenna > repeater > internet gate > internet

Is this feasible in any way or am I misunderstanding HSMM?

--- In ntms-hsmm@yahoogroups.com, "Steve" <kb9mwr@...> wrote:
> Yeah, ouch. You can do the same with with a Linksys Mobile Broadband
> AP/Router (WRT54G3G) and a Verizon Air Card. For a lot cheaper!
>
> I know someone who is doing just that- a mobile hot spot. And mobile
> 900 analog repeater tied to echolink over that internet connection and
> to the HF rig in the car along with VHF and UHF ports.
>
> The vehicle would look like a porcupine, but thanks to those Larson
> low profile (salt shaker) antennas, it really doesn't.
>

1372. Re: [ntms-hsmm] Re: WiFi In Motion

Yahoo group: DAWG-HSMM
Date: 2009-03-26 16:21:57 UTC
From: Bob Diepenbrock
Topic: 1330 Message: 1372

You got it about right.

Usually though the "radio" and "repeater" part are just standard AP/Router equipment with additional power and/or antenna gain.

I also don't think I'd say "repeater" exactly. What we are doing is more like a packet node which is not a repeater, but a separate send and receive operation.

So the picture is something like this:

```
Laptop >
  Off the Shelf 802.11(b-n) device >
     (Optional amp) >
        Antenna
          <--- RF Link --->
        Antenna >
     (Optional Amp) >
   Off the Shelf 802.11(b-n) device >
Internet connection
```

One more thing to keep in mind. The HSMM link is for licensed users only so you will need to protect the link from unlicensed users. However, you will need to make a note in your logs or some other record if you set a WEP key on the link if the FCC comes to ask you for it.

Another thing to watch out for is the content that goes over the link. There are some restrictions to keep in mind, such as not receiving business E-mail and such.

-= Bob =-

From: Glenn Dixon <dixonge@...>
To: ntms-hsmm@yahoogroups.com
Sent: Wednesday, March 25, 2009 8:46:00 PM
Subject: [ntms-hsmm] Re: WiFi In Motion

I've been wondering about this since I first heard of HSMM - in my mind I was imagining that I could access the internet while on the road, something like this:

laptop > AP/router > radio > antenna > repeater > internet gate > internet

Is this feasible in any way or am I misunderstanding HSMM?

--- In ntms-hsmm@yahoogrou ps.com, "Steve" <kb9mwr@...> wrote:
> Yeah, ouch. You can do the same with with a Linksys Mobile Broadband
> AP/Router (WRT54G3G) and a Verizon Air Card. For a lot cheaper!
>
> I know someone who is doing just that- a mobile hot spot. And mobile

> 900 analog repeater tied to echolink over that internet connection and
> to the HF rig in the car along with VHF and UHF ports.
>
> The vehicle would look like a porcupine, but thanks to those Larson
> low profile (salt shaker) antennas, it really doesn't.
>

[Non-text portions of this message have been removed]

1373. Re: [ntms-hsmm] Re: WiFi In Motion

Yahoo group: DAWG-HSMM
Date: 2009-03-26 17:41:54 UTC
From: Kilgore
Topic: 1330 Message: 1373

Please define what you mean by "on the road".

I made a summer vacation trip from Texas to Alaska and used 802.11 in RV parks and hotel lobbies. You can go to Starbucks, McDonalds and city libraries to get access. It's all over the place. Some places may charge for internet access but you can find free access if you look for it.

But you have to be stationary to use them. I did use a Linksys WRT54gl mounted in a Pacific Wireless Rootenna to reach out and connect to the RV office some distance away line-of-sight. But I don't consider that as being HSMM because I used off-the-shelf components available to the public under Part 15 power.

I also have a Sprint Broadband USB card that will allow me to literally have internet access while moving. Just plug it into the laptop and go. Works where ever you can get a cellphone signal.

Is this what you are thinking about?

Doug Kilgore KD5OUG

Glenn Dixon wrote:
> I've been wondering about this since I first heard of HSMM - in my mind I was imagining that I could access the internet while on the road, something like this:
>
> laptop > AP/router > radio > antenna > repeater > internet gate > internet
>
> Is this feasible in any way or am I misunderstanding HSMM?
>
>
> --- In ntms-hsmm@yahoogroups.com, "Steve" <kb9mwr@...> wrote:
>> Yeah, ouch. You can do the same with with a Linksys Mobile Broadband
>> AP/Router (WRT54G3G) and a Verizon Air Card. For a lot cheaper!
>>
>> I know someone who is doing just that- a mobile hot spot. And mobile
>> 900 analog repeater tied to echolink over that internet connection and
>> to the HF rig in the car along with VHF and UHF ports.
>>
>> The vehicle would look like a porcupine, but thanks to those Larson
>> low profile (salt shaker) antennas, it really doesn't.
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> Yahoo! Groups Links
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1374. Re: [ntms-hsmm] Re: WiFi In Motion

Yahoo group: DAWG-HSMM
Date: 2009-03-26 17:51:09 UTC
From: Glenn Dixon
Topic: 1330 Message: 1374

Unfortunately, yes, I was imagining some sort of long-range connection while moving. Storm-chasing, specifically. I guess if every county had a repeater with HSMM set up it might work, but I probably shouldn't hold my breath on that one.

Still, I like a lot of the ideas I'm reading here. Lots of geeky goodness to play with.

Glenn
dixonge@...

On Thu, Mar 26, 2009 at 12:41 PM, Kilgore <kilgore1317@...> wrote:
>
> I also have a Sprint Broadband USB card that will allow me to literally
> have internet access while moving. Just plug it into the laptop and go.
> Works where ever you can get a cellphone signal.
>
> Is this what you are thinking about?
>
> Doug Kilgore KD5OUG
>

[Non-text portions of this message have been removed]

1375. Re: WiFi In Motion

Yahoo group: DAWG-HSMM
Date: 2009-03-27 04:15:20 UTC
From: J. Beadles
Topic: 1330 Message: 1375

Let me take a second to clarify, that the HSMM banner covers any technology that provides over a certain data rate. That includes things like retasked Wifi, WiMAX, DSTAR, experimental ODFM radios, etc.

At this time, the only thing I'm aware of that's really suitable for county wide coverage is 1.2GHz DSTAR data. Unfortunately, DSTAR data has coverage issues, and can't be counted on for mobile data. Wifi isn't really particularly suitable for county coverage, though WiMAX might be.

--- In ntms-hsmm@yahoogroups.com, Glenn Dixon <dixonge@...> wrote:
>
> Unfortunately, yes, I was imagining some sort of long-range connection while
> moving. Storm-chasing, specifically. I guess if every county had a
> repeater with HSMM set up it might work, but I probably shouldn't hold my
> breath on that one.
>
> Still, I like a lot of the ideas I'm reading here. Lots of geeky goodness
> to play with.
>
> Glenn
> dixonge@...
>
>
> On Thu, Mar 26, 2009 at 12:41 PM, Kilgore <kilgore1317@...> wrote:
> >
> > I also have a Sprint Broadband USB card that will allow me to literally
> > have internet access while moving. Just plug it into the laptop and go.
> > Works where ever you can get a cellphone signal.
> >
> > Is this what you are thinking about?
> >
> > Doug Kilgore KD5OUG
> >
>
>
> [Non-text portions of this message have been removed]
>

1376. Interesting

Yahoo group: DAWG-HSMM
Date: 2009-03-30 07:40:52 UTC
From: Steve
Topic: 1376 Message: 1376

http://ubnt.com/products/xr1.php

* Powerful 802.11 non line of sight radio module
* 180-280MHz Frequency Band
Designed for Metering Applications

1377. Re: [ntms-hsmm] Interesting - From Ubiquiti's website forum

Yahoo group: DAWG-HSMM
Date: 2009-03-31 00:45:18 UTC
From: Dennis Karol
Topic: 1376 Message: 1377

UBNT-Mike.Ford
Site Admin
Site Admin

Joined: 17 Aug 2007
Posts: 3397
Location: Milpitas, CA

Post <http://forum.ubnt.com/forum/viewtopic.php?p=27765#27765>Posted: Fri Feb 27, 2009 9:48 am Post subject: Reply with quote <http://forum.ubnt.com/forum/posting.php?mode=quote&p=27765>

DieselPower wrote:
I have spent hours on the FCC site, and have not been able to find a band suitable for the XR1 in the US. Hopefully Ubiquity knows something we don't, but it does not look to promising.

Hey Guys,

This card is mainly for OEM licnesed applications, and would not be legal for the general public in the US.

Thanks,

Mike

_____
Technical Support Team Manager
Senior Test Engineer
Support Forum Senior Moderator

Back to top <http://forum.ubnt.com/forum/viewtopic.php?t=8754#top>
View user's profile <http://forum.ubnt.com/forum/profile.php?mode=viewprofile&u=4> Send private message <http://forum.ubnt.com/forum/privmsg.php?mode=post&u=4>
Visit poster's website <http://www.ubnt.com>

Steve wrote:
>
> http://ubnt.com/products/xr1.php <http://ubnt.com/products/xr1.php>
>
> * Powerful 802.11 non line of sight radio module
> * 180-280MHz Frequency Band
> Designed for Metering Applications
>
>
> ---
>

>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.0.238 / Virus Database: 270.11.31/2028 - Release Date: 03/28/09 07:16:00
>
>

--
From the "Nation's Summer Capital", Rehoboth Beach, Delaware...
http://kb3mj.com "Google" is your friend! J-M-J

[Non-text portions of this message have been removed]

1378. Re: Interesting - From Ubiquiti's website forum

Yahoo group: DAWG-HSMM
Date: 2009-03-31 04:33:23 UTC
From: Steve
Topic: 1376 Message: 1378

Yeah I saw that... Designed for Metering Applications

The reason I pointed it out is because this is the lowest frequency I have seen them design a 802.11 radio for yet.

Really makes you wonder when one of them will cover 420-450 MHz as a side benefit.

1379. Re: [ntms-hsmm] Re: Interesting - From Ubiquiti's website forum

Yahoo group: DAWG-HSMM
Date: 2009-03-31 05:24:33 UTC
From: icra@galaxynet.com
Topic: 1376 Message: 1379

> The reason I pointed it out is because this is the lowest frequency
> I have seen them design a 802.11 radio for yet.
>
> Really makes you wonder when one of them will cover 420-450 MHz as a
> side benefit.
>
I wonder if it would fit in the Part 97 rules for use on 2mtrs....

420-450 would be better for my ideas....but could make it work on 2mtrs if it fits the rules and
regs.....

Mel
N7OKL

1380. Re: [ntms-hsmm] Re: Interesting - From Ubiquiti's website forum

Yahoo group: DAWG-HSMM
Date: 2009-03-31 13:06:32 UTC
From: ALERTradio ERC | N0PCO
Topic: 1376 Message: 1380

The XR1 would fit into the 1.25m frequency wise. Getting the 1.25m band plan to allow for OFDM, sure would open up some interesting possibilities.

Would tend have some problems with the size of the channel too, considering the minimum channel size is 5MHz.

Ubiquiti Networks XR1 specifications:
http://www.ubnt.com/downloads/xr1_ds.pdf

Mars, N0PCO

icra@... wrote:
>> The reason I pointed it out is because this is the lowest frequency
>> I have seen them design a 802.11 radio for yet.
>>
>> Really makes you wonder when one of them will cover 420-450 MHz as a
>> side benefit.
>>
>>
> I wonder if it would fit in the Part 97 rules for use on 2mtrs....
>
> 420-450 would be better for my ideas....but could make it work on 2mtrs if it fits the rules and
> regs.....
>
> Mel
> N7OKL
>
>

[Non-text portions of this message have been removed]

1381. RE: [ntms-hsmm] Re: Interesting - From Ubiquiti's website forum

Yahoo group: DAWG-HSMM
Date: 2009-03-31 13:21:22 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1376 Message: 1381

Mars,

This is an interesting product with lots of possibilities. Years ago, I was on the ARRL special committee, chaired by Todd Olson, K0TO that successfully proposed the 219 MHz allocation that we have and sadly don't use.

These frequencies provide excellent path possibilities and so I have a couple of questions:

Is the power level of this device such that it could be a Part 15 device?

Could the transmission envelope be modified to be narrower and provide a lower throughput, but then comply with the bandwidth limitations of the 1.25 cm band?

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of ALERTradio ERC | N0PCO
Sent: Tuesday, March 31, 2009 1:07 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Re: Interesting - From Ubiquiti's website forum

The XR1 would fit into the 1.25m frequency wise. Getting the 1.25m band plan to allow for OFDM, sure would open up some interesting possibilities.

Would tend have some problems with the size of the channel too, considering the minimum channel size is 5MHz.

Ubiquiti Networks XR1 specifications:
http://www.ubnt. <http://www.ubnt.com/downloads/xr1_ds.pdf>
com/downloads/xr1_ds.pdf

Mars, N0PCO

icra@galaxynet. <mailto:icra%40galaxynet.com> com wrote:
>> The reason I pointed it out is because this is the lowest frequency
>> I have seen them design a 802.11 radio for yet.
>>
>> Really makes you wonder when one of them will cover 420-450 MHz as a
>> side benefit.

>>
>>
> I wonder if it would fit in the Part 97 rules for use on 2mtrs....
>
> 420-450 would be better for my ideas....but could make it work on 2mtrs if
it fits the rules and
> regs.....
>
> Mel
> N7OKL
>
>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1382. Re: [ntms-hsmm] Re: Interesting - From Ubiquiti's website forum

Yahoo group: DAWG-HSMM
Date: 2009-03-31 15:14:47 UTC
From: ALERTradio ERC | N0PCO
Topic: 1376 Message: 1382

The XR1 is spec out at:

22 dBm (158mW) 54Mbps
28 dBm (630mW) 6 - 24 Mbps

OFDM

==========

As for the transmission envelope, that would be a good question for the guys at Ubiquiti Networks (just sent a note to them, will let the group know what I find out).

Note: the XR-1 operates 180-280 MHz thus the closest Amateur Radio band is 1.25m

J. Gordon Beattie, Jr., W2TTT wrote:
>
> Mars,
>
> This is an interesting product with lots of possibilities. Years ago,
> I was
> on the ARRL special committee, chaired by Todd Olson, K0TO that
> successfully
> proposed the 219 MHz allocation that we have and sadly don't use.
>
> These frequencies provide excellent path possibilities and so I have a
> couple of questions:
>
> Is the power level of this device such that it could be a Part 15 device?
>
> Could the transmission envelope be modified to be narrower and provide a
> lower throughput, but then comply with the bandwidth limitations of
> the 1.25
> cm band?
>
> Thanks & 73,
>
> Gordon Beattie, W2TTT
>
> 201.314.6964
>
> -----
>
> From: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> [mailto:ntms-hsmm@yahoogroups.com

> <mailto:ntms-hsmm%40yahoogroups.com>] On Behalf
> Of ALERTradio ERC | N0PCO
> Sent: Tuesday, March 31, 2009 1:07 PM
> To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> Subject: Re: [ntms-hsmm] Re: Interesting - From Ubiquiti's website forum
>
> The XR1 would fit into the 1.25m frequency wise. Getting the 1.25m
> band plan to allow for OFDM, sure would open up some interesting
> possibilities.
>
> Would tend have some problems with the size of the channel too,
> considering the minimum channel size is 5MHz.
>
> Ubiquiti Networks XR1 specifications:
> http://www.ubnt. <http://www.ubnt.com/downloads/xr1_ds.pdf
> <http://www.ubnt.com/downloads/xr1_ds.pdf>>
> com/downloads/xr1_ds.pdf
>
> Mars, N0PCO
>
> icra@galaxynet. <mailto:icra%40galaxynet.com> com wrote:
> >> The reason I pointed it out is because this is the lowest frequency
> >> I have seen them design a 802.11 radio for yet.
> >>
> >> Really makes you wonder when one of them will cover 420-450 MHz as a
> >> side benefit.
> >>
> >>
> > I wonder if it would fit in the Part 97 rules for use on 2mtrs....
> >
> > 420-450 would be better for my ideas....but could make it work on
> 2mtrs if
> it fits the rules and
> > regs.....
> >
> > Mel
> > N7OKL
> >
> >
>
> .
>
>

[Non-text portions of this message have been removed]

1383. Re: [ntms-hsmm] Re: Interesting - From Ubiquiti's website forum

Yahoo group: DAWG-HSMM
Date: 2009-03-31 15:26:31 UTC
From: KJ6KO
Topic: 1376 Message: 1383

..I see nowhere the listing that shows FCC approval for Part 15 or otherwise??? Is this even legal in the US? Most of these companies sell "stuff" as either "OEM", "HAM" or "EXPORT" equipment and it is widely used in the US illegally! Just listen to the 900 band lately! 4W EIRP??.....yea right! I know for a fact most of these guys are running between 40-100W ERP and nobody cares. Believe it or not, Hams have even been sued for interfering with Part 15 users! Not supposed to be possible...but it's happening! Someone needs to keep an eye on these people.

Greg KJ6KO

www.nc9rs.com

----- Original Message -----
From: ALERTradio ERC | N0PCO
To: ntms-hsmm@yahoogroups.com
Sent: Tuesday, March 31, 2009 6:06 AM
Subject: Re: [ntms-hsmm] Re: Interesting - From Ubiquiti's website forum

The XR1 would fit into the 1.25m frequency wise. Getting the 1.25m band plan to allow for OFDM, sure would open up some interesting possibilities.

Would tend have some problems with the size of the channel too, considering the minimum channel size is 5MHz.

Ubiquiti Networks XR1 specifications:
http://www.ubnt.com/downloads/xr1_ds.pdf

Mars, N0PCO

icra@... wrote:
>> The reason I pointed it out is because this is the lowest frequency
>> I have seen them design a 802.11 radio for yet.
>>
>> Really makes you wonder when one of them will cover 420-450 MHz as a
>> side benefit.
>>
>>
> I wonder if it would fit in the Part 97 rules for use on 2mtrs....
>
> 420-450 would be better for my ideas....but could make it work on 2mtrs if it fits the rules and
> regs.....
>
> Mel
> N7OKL
>

>

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1384. Re: [ntms-hsmm] Re: Interesting - From Ubiquiti's website forum

Yahoo group: DAWG-HSMM
Date: 2009-03-31 17:22:11 UTC
From: Rusty Haddock
Topic: 1376 Message: 1384

```
ALERTradio ERC | N0PCO wrote:
>The XR1 would fit into the 1.25m frequency wise. Getting the 1.25m
>band plan to allow for OFDM, sure would open up some interesting
>possibilities.
>
>Would tend have some problems with the size of the channel too,
>considering the minimum channel size is 5MHz.

Keep in mind that the channel may be 5-MHz but...
the signal bandwidth can be as high as 25-MHz!

Even on 2.4-GHz we have channel overlap.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

1385. Re: [ntms-hsmm] Re: Interesting - From Ubiquiti's website forum

Yahoo group: DAWG-HSMM
Date: 2009-03-31 17:44:58 UTC
From: ALERTradio ERC | N0PCO
Topic: 1376 Message: 1385

Already aware of the channel bandwidth size, as in the XR1 specs it references that channel size can be set. Even with the minimum channel size it wouldn't fit into 222MHz band, but there may be ways to reduce the overall spectrum requirements.

Be nice if the full 219 to 225 MHz was available.

=====

All the bands above 2m have some overlap, and then there's additional services in the same allocations.

Mars

Rusty Haddock wrote:
>
> ALERTradio ERC | N0PCO wrote:
> >The XR1 would fit into the 1.25m frequency wise. Getting the 1.25m
> >band plan to allow for OFDM, sure would open up some interesting
> >possibilities.
> >
> >Would tend have some problems with the size of the channel too,
> >considering the minimum channel size is 5MHz.
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> Keep in mind that the channel may be 5-MHz but...
> the signal bandwidth can be as high as 25-MHz!
>
> Even on 2.4-GHz we have channel overlap.
>
> -Rusty-
> --
>
>

[Non-text portions of this message have been removed]

1386. Re: Interesting - From Ubiquiti's website forum

Yahoo group: DAWG-HSMM
Date: 2009-03-31 17:56:05 UTC
From: Steve
Topic: 1376 Message: 1386

Making a request on the MadWifi-project ticket system or inquiry on their message board might also be a good idea.

>
> As for the transmission envelope, that would be a good question for the
> guys at Ubiquiti Networks (just sent a note to them, will let the group
> know what I find out).
>

1387. Re: Ubiquiti Networks - XR1 VHF Module | No Joy on 1.25m

Yahoo group: DAWG-HSMM
Date: 2009-04-01 04:10:05 UTC
From: ALERTradio ERC | N0PCO
Topic: 1387 Message: 1387

Per Ubiquiti Networks Support Team:

This card does not have these capabilities and is not legal for sale in the US.

========

Questions Asked:

1. Could the transmission envelope be modified to be narrower channel?

2. If the channel size is reduced, how much of a reduction in overall speed would occur?

[Non-text portions of this message have been removed]

1388. Re: Ubiquiti Networks - XR1 VHF Module | No Joy on 1.25m

Yahoo group: DAWG-HSMM
Date: 2009-04-02 04:30:48 UTC
From: Steve
Topic: 1387 Message: 1388

```
>
> ========
>
> Questions Asked:
>
>
> 1. Could the transmission envelope be modified to be narrower channel?
>
> 2. If the channel size is reduced, how much of a reduction in overall
> speed would occur?
```

Ubiquiti are based on the Atheros chipset. In 802.11g mode you can select the 5 MHz channel width. On a solid path this can still yield up to a 10 Mbps signaling rate.

In my opinion the madwifi guys should consider 2.5 MHz channel width support. That can still yield a very usable speed. As we have seen, the Wimax stuff supports channel widths down as low as 1.5 MHz

1389. HSMM???

Yahoo group: DAWG-HSMM
Date: 2009-04-02 10:07:16 UTC
From: K0YR
Topic: 1389 Message: 1389

HSMM Group,
At are club meeting next week, we are going to discuss the potential of various EMComm options. One of those will be, "Is HSMM a viable option for our community??? Our county just built a new Justice Center and we have been given a new radio room. The club is looking to tie the Justice Center, Hospital and the Red Cross EOC (this is where we hold our club meetings) with some form of data network.
Tom, K0YR

[Non-text portions of this message have been removed]

1390. Re: [ntms-hsmm] HSMM???

Yahoo group: DAWG-HSMM
Date: 2009-04-02 16:48:57 UTC
From: Glenn Currie
Topic: 1389 Message: 1390

We are in the process of installing HSMM links between the
local Red Cross chapter office where we have a radio shack
and the City of Austin and Travis County EOC, where we have
another radio shack and additional computer servers supporting
digital communications.

Point to point links of 10 miles or more are relatively straightforward,
if you can get Line of Sight sites.

Go for it. It is the wave of the future.

See if you can get a "static IP address" for you HSMM node at the
EOC. We are working on that. That gives you a straightforward
way to link your HSMM system into the Internet when needed.

Let me know if you have any questions.

I am on my way to Kerrville to give a HSMM presentation this
evening.

-Glenn
KD5MFW
kd5mfw@...

K0YR <k0yr_tr@...> wrote: HSMM Group,
At are club meeting next week, we are going to discuss the potential of various EMComm
options. One of those will be, "Is HSMM a viable option for our community??? Our county
just built a new Justice Center and we have been given a new radio room. The club is
looking to tie the Justice Center, Hospital and the Red Cross EOC (this is where we hold
our club meetings) with some form of data network.
Tom, K0YR

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1391. I spotted this HSMM demo today at AES Superfest

Yahoo group: DAWG-HSMM
Date: 2009-04-04 22:35:41 UTC
From: Steve
Topic: 1391 Message: 1391

The Wisconsin Amateur Radio Club has a digital backbone project"

http://kb9mwr.blogspot.com/2009/04/wisconsin-amateur-radio-club-digital.html

1392. Do-It-Yourself WiFi Antenna

Yahoo group: DAWG-HSMM
Date: 2009-04-17 22:14:12 UTC
From: Kilgore
Topic: 1392 Message: 1392

I stumbled upon this Youtube video about making a WiFi antenna:
http://www.youtube.com/watch?v=sUTT8wdN_VA&NR=1

Template here:
http://www.freeantennas.com/projects/template2/index.html

1393. Re: [ntms-hsmm] Do-It-Yourself WiFi Antenna

Yahoo group: DAWG-HSMM
Date: 2009-04-18 00:38:14 UTC
From: Glenn Currie
Topic: 1392 Message: 1393

The antenna is handy.

W1GHZ has a lot of microwave antenna projects on his site as well.

<http://www.w1ghz.org/antbook/preface.htm>

-Glenn

Kilgore <kilgore1317@...> wrote:

I stumbled upon this Youtube video about making a WiFi antenna:
http://www.youtube.com/watch?v=sUTT8wdN_VA&NR=1

Template here:
http://www.freeantennas.com/projects/template2/index.html

[Non-text portions of this message have been removed]

1394. DD-WRT for HSMM Workshop

Yahoo group: DAWG-HSMM
Date: 2009-05-23 22:41:16 UTC
From: Kipton Moravec
Topic: 1394 Message: 1394

I am thinking of having a workshop on using DD-WRT for HSMM.

I would cover what we have done for HSMM for Richardson Wild Flower Festival Wild Ride Bicycle Rally, and the Plano Balloon Festival.

Show different examples of adding antennas to routers.

Show how to load DD-WRT in to a router.

Show how I configure DD-WRT. And what some of the the settings do.

The workshop part is to let you bring your router, have a show and tell, load DD-WRT (if you have not done so yet) and set up routers outside and let them communicate with each other. So far the biggest network I have built is 4 routers with 3 hops. I would like to demonstrate 10 hops or so.

I am looking at August 15 or 22 in Lucas Texas (Lucas is just east of Allen). I am limiting it to Amateur Radio operators only. And I do not have physical room for more than 25 people. Is this of interest to anyone on this list?

Kip
--

Kipton Moravec AE5IB .- . ... -...
==========
Four Way Test
Is it the Truth?
Is it Fair to all concerned?
Will it build Goodwill and Better Friendships?
Will it be Beneficial to all concerned?
- Herbert J Taylor (1932)

1395. Re: [ntms-hsmm] DD-WRT for HSMM Workshop

Yahoo group: DAWG-HSMM
Date: 2009-05-24 04:06:42 UTC
From: John Champa
Topic: 1394 Message: 1395

Sounds interesting to me....

Thanks,
John K8OCL

On Sat, May 23, 2009 at 10:41 PM, Kipton Moravec <kip@...> wrote:

>
>
> I am thinking of having a workshop on using DD-WRT for HSMM.
>
> I would cover what we have done for HSMM for Richardson Wild Flower
> Festival Wild Ride Bicycle Rally, and the Plano Balloon Festival.
>
> Show different examples of adding antennas to routers.
>
> Show how to load DD-WRT in to a router.
>
> Show how I configure DD-WRT. And what some of the the settings do.
>
> The workshop part is to let you bring your router, have a show and tell,
> load DD-WRT (if you have not done so yet) and set up routers outside and
> let them communicate with each other. So far the biggest network I have
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>
> Kip
> --
>
> Kipton Moravec AE5IB .- . ... -...
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>
>
>

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Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1396. RE: [ntms-hsmm] DD-WRT for HSMM Workshop

Yahoo group: DAWG-HSMM
Date: 2009-05-24 04:28:04 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1394 Message: 1396

Kip,

Do you think you could share the plan and the tools with folks up this way
so that we could run a session closer to our homes here in New Jersey?

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of John Champa
Sent: Sunday, May 24, 2009 4:07 AM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] DD-WRT for HSMM Workshop

Sounds interesting to me....

Thanks,
John K8OCL

On Sat, May 23, 2009 at 10:41 PM, Kipton Moravec <kip@...
<mailto:kip%40kdream.com> > wrote:

>
>
> I am thinking of having a workshop on using DD-WRT for HSMM.
>
> I would cover what we have done for HSMM for Richardson Wild Flower
> Festival Wild Ride Bicycle Rally, and the Plano Balloon Festival.
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> Show different examples of adding antennas to routers.
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> built is 4 routers with 3 hops. I would like to demonstrate 10 hops or
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> Allen). I am limiting it to Amateur Radio operators only. And I do not
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>
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>

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Nisciune nasce imparate

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1397. Re: [ntms-hsmm] DD-WRT for HSMM Workshop

Yahoo group: DAWG-HSMM
Date: 2009-05-24 06:29:32 UTC
From: Glenn Currie
Topic: 1394 Message: 1397

I would support more hams making use of 3rd party firmware for ham radio use of low cost Wi-Fi gear. The DD-WRT firmware is good stuff.

In the Austin HSMM SIG we use Open-WRT as a base and are on our 3rd version of heavily customized ham radio variant of this firmware base. We find the structure of the Open-Wrt firmware lends itself to the source code modifications we are adding.

We have our reasons for using the Open-Wrt firmware base. Other 3rd party firmware bases have many advantages over the original Linksys firmware.

The number of useful modifications that can be made are almost endless, depending on what features you wish to add and how much memory you end up having in the hardware.

We found adding the Optimum Link State Routing (OLSR) firmware easier to add t the Open-WRT base. Other peripherals are being added using I2C code and "stolen" LED general purpose output lines.

There are not enough hours in the day to check out all the great ham mods that can be made to these inexpensive routers.

I would strongly encourage helping others get started with HSMM in any way possible. The more people we can get using this stuff, the greater the knowledge Base and ham related mods that can be developed.

If all goes well, I will give a presentation at Hamcom on our ARES-MESH auto linking auto healing mesh firmware for the several models fo the Linksys WRT54G.

We need more hams workng with this gear. It is relatively inepensive and gives us a way to do provide broadband amaateur radio communications alternatives.

Regards,

-Glenn

--- On Sat, 5/23/09, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: [ntms-hsmm] DD-WRT for HSMM Workshop
To: ntms-hsmm@yahoogroups.com
Date: Saturday, May 23, 2009, 5:41 PM

I am thinking of having a workshop on using DD-WRT for HSMM.

I would cover what we have done for HSMM for Richardson Wild Flower Festival Wild Ride Bicycle Rally, and the Plano Balloon Festival.

Show different examples of adding antennas to routers.

Show how to load DD-WRT in to a router.

Show how I configure DD-WRT. And what some of the the settings do.

The workshop part is to let you bring your router, have a show and tell, load DD-WRT (if you have not done so yet) and set up routers outside and let them communicate with each other. So far the biggest network I have built is 4 routers with 3 hops. I would like to demonstrate 10 hops or so.

I am looking at August 15 or 22 in Lucas Texas (Lucas is just east of Allen). I am limiting it to Amateur Radio operators only. And I do not have physical room for more than 25 people. Is this of interest to anyone on this list?

Kip

--

Kipton Moravec AE5IB .- . ... -...

========== ========= ========= ========= =======

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- Herbert J Taylor (1932)

[Non-text portions of this message have been removed]

1398. Re: [ntms-hsmm] DD-WRT for HSMM Workshop

Yahoo group: DAWG-HSMM
Date: 2009-05-24 11:39:21 UTC
From: Kipton Moravec
Topic: 1394 Message: 1398

For us, the DD-WRT works fine. However I would like to investigate
Open-WRT as there may be trouble in the future for DD-WRT users.

http://www.bitsum.com/about-ddwrt.htm

It has not affected us so far with what we are doing, but I am concerned
for future releases. It reminds me of RedHat.

The best part of DD-WRT is the GUI interface for setting everything up.
Open-WRT (I have read) is mostly command line based, which makes me
concerned it is not as easy to quickly get it going. Which is what you
want in an emergency.

It looks like there are other groups making a GUI front end to OpenWRT
like X-WRT.

http://en.wikipedia.org/wiki/X-Wrt

Again, I have not played with it yet.

I look forward to your presentation at HAMCOM. I will be collecting
money from the parking lot vendors early Friday morning, then I will be
helping with the Audio Visual part of the seminars, making sure
everything stays working.

Kip

On Sat, 2009-05-23 at 23:29 -0700, Glenn Currie wrote:
> I would support more hams making use of 3rd party firmware for ham radio
> use of low cost Wi-Fi gear. The DD-WRT firmware is good stuff.
>
> In the Austin HSMM SIG we use Open-WRT as a base and are on our 3rd
> version of heavily customized ham radio variant of this firmware base.
> We find the structure of the Open-Wrt firmware lends itself to the source code
> modifications we are adding.
>
> We have our reasons for using the Open-Wrt firmware base. Other 3rd party
> firmware bases have many advantages over the original Linksys firmware.
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> The number of useful modifications that can be made are almost endless,
> depending on what features you wish to add and how much memory you
> end up having in the hardware.
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> We found adding the Optimum Link State Routing (OLSR) firmware easier
> to add t the Open-WRT base. Other peripherals are being added using
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> There are not enough hours in the day to check out all the great ham
> mods that can be made to these inexpensive routers.
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> I would strongly encourage helping others get started with HSMM in
> any way possible. The more people we can get using this stuff, the
> greater the knowledge Base and ham related mods that can be
> developed.
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> If all goes well, I will give a presentation at Hamcom on our ARES-MESH
> auto linking auto healing mesh firmware for the several models fo the
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> We need more hams workng with this gear. It is relatively inepensive and
> gives us a way to do provide broadband amaateur radio communications
> alternatives.
>
> Regards,
>
> -Glenn

--

Kipton Moravec AE5IB .- . ... -...
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1399. Re: [ntms-hsmm] DD-WRT for HSMM Workshop

Yahoo group: DAWG-HSMM
Date: 2009-05-24 17:05:33 UTC
From: John Champa
Topic: 1394 Message: 1399

How about running a session at HamCom in Dallas next month?

On Sun, May 24, 2009 at 4:28 AM, J. Gordon Beattie, Jr., W2TTT <
w2ttt@...> wrote:

>
>
> Kip,
>
> Do you think you could share the plan and the tools with folks up this way
> so that we could run a session closer to our homes here in New Jersey?
>
> Thanks & 73,
>
> Gordon Beattie, W2TTT
>
> 201.314.6964
>
> _____
>
> From: ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com> [mailto:
> ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>] On Behalf
> Of John Champa
> Sent: Sunday, May 24, 2009 4:07 AM
> To: ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>
> Subject: Re: [ntms-hsmm] DD-WRT for HSMM Workshop
>
>
> Sounds interesting to me....
>
> Thanks,
> John K8OCL
>
> On Sat, May 23, 2009 at 10:41 PM, Kipton Moravec <kip@...<kip%40kdream.com>
> <mailto:kip%40kdream.com <kip%2540kdream.com>> > wrote:
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> > I am thinking of having a workshop on using DD-WRT for HSMM.
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> --
> Nisciune nasce imparate
>
> "When you can measure what you are speaking about, and express it in
> numbers, you know something about it." [Lord Kelvin 1824-1907]
>
> [Non-text portions of this message have been removed]
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> [Non-text portions of this message have been removed]
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>

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Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in
numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1400. Re: [ntms-hsmm] DD-WRT for HSMM Workshop

Yahoo group: DAWG-HSMM
Date: 2009-05-24 17:32:52 UTC
From: Kipton Moravec
Topic: 1394 Message: 1400

It is too late to get into HAMCOM this year, and I probably will not be ready. I am still working on the presentation. I hope to have something next year at HAMCOM.

Kip

On Sun, 2009-05-24 at 17:05 +0000, John Champa wrote:
> How about running a session at HamCom in Dallas next month?
>
> On Sun, May 24, 2009 at 4:28 AM, J. Gordon Beattie, Jr., W2TTT <
> w2ttt@...> wrote:
>
> >
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> > Kip,
> >
> > Do you think you could share the plan and the tools with folks up this way
> > so that we could run a session closer to our homes here in New Jersey?
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> > Thanks & 73,
> >
> > Gordon Beattie, W2TTT
> >
> > 201.314.6964
> >
> > _____
> >
> > From: ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com> [mailto:
> > ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>] On Behalf
> > Of John Champa
> > Sent: Sunday, May 24, 2009 4:07 AM
> > To: ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>
> > Subject: Re: [ntms-hsmm] DD-WRT for HSMM Workshop
> >
> >
> > Sounds interesting to me....
> >
> > Thanks,
> > John K8OCL
> >
> > On Sat, May 23, 2009 at 10:41 PM, Kipton Moravec <kip@...<kip%40kdream.com>
> > <mailto:kip%40kdream.com <kip%2540kdream.com>> > wrote:
> >
> > >
> > >

> > > I am thinking of having a workshop on using DD-WRT for HSMM.
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> > > Kip
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> > >
> > > Kipton Moravec AE5IB .- . ... -...
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> > [Non-text portions of this message have been removed]
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1401. Re: [ntms-hsmm] DD-WRT for HSMM Workshop

Yahoo group: DAWG-HSMM
Date: 2009-05-24 17:36:58 UTC
From: John Champa
Topic: 1394 Message: 1401

Not too late. I can get you a spot, if you can be ready by next month.
I have several HSMM spots and you can have one of mine.

On Sun, May 24, 2009 at 5:32 PM, Kipton Moravec <kip@...> wrote:

>
>
> It is too late to get into HAMCOM this year, and I probably will not be
> ready. I am still working on the presentation. I hope to have something
> next year at HAMCOM.
>
> Kip
>
>
> On Sun, 2009-05-24 at 17:05 +0000, John Champa wrote:
> > How about running a session at HamCom in Dallas next month?
> >
> > On Sun, May 24, 2009 at 4:28 AM, J. Gordon Beattie, Jr., W2TTT <
> > w2ttt@... <w2ttt%40att.net>> wrote:
> >
> > >
> > >
> > > Kip,
> > >
> > > Do you think you could share the plan and the tools with folks up this
> way
> > > so that we could run a session closer to our homes here in New Jersey?
> > >
> > > Thanks & 73,
> > >
> > > Gordon Beattie, W2TTT
> > >
> > > 201.314.6964
> > >
> > > _____
> > >
> > > From: ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com><ntms-hsmm%
> 40yahoogroups.com> [mailto:
> > > ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com> <ntms-hsmm%
> 40yahoogroups.com>] On Behalf
> > > Of John Champa
> > > Sent: Sunday, May 24, 2009 4:07 AM
> > > To: ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com><ntms-hsmm%
> 40yahoogroups.com>
> > > Subject: Re: [ntms-hsmm] DD-WRT for HSMM Workshop

> > >
> > >
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> > > Thanks,
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> > > On Sat, May 23, 2009 at 10:41 PM, Kipton Moravec <kip@...<kip%40kdream.com>
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> > > <mailto:kip%40kdream.com <kip%2540kdream.com> <kip%2540kdream.com>> >
> wrote:
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[Non-text portions of this message have been removed]

1402. RE: [ntms-hsmm] DD-WRT for HSMM Workshop

Yahoo group: DAWG-HSMM
Date: 2009-05-24 17:45:20 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1394 Message: 1402

Kip and John,

Dallas is a long way from New Jersey!

:-)

Materials and an preparation outline would be of great interest here.

Several of us are interested in this topic for EMCOM and technology reasons.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

_____

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of John Champa
Sent: Sunday, May 24, 2009 5:06 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] DD-WRT for HSMM Workshop

How about running a session at HamCom in Dallas next month?

On Sun, May 24, 2009 at 4:28 AM, J. Gordon Beattie, Jr., W2TTT <
w2ttt@... <mailto:w2ttt%40att.net> > wrote:

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> Do you think you could share the plan and the tools with folks up this way
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>
> From: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
<ntms-hsmm%40yahoogroups.com> [mailto:
> ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
<ntms-hsmm%40yahoogroups.com>] On Behalf

> Of John Champa
> Sent: Sunday, May 24, 2009 4:07 AM
> To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
<ntms-hsmm%40yahoogroups.com>
> Subject: Re: [ntms-hsmm] DD-WRT for HSMM Workshop
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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1403. RE: [ntms-hsmm] DD-WRT for HSMM Workshop

Yahoo group: DAWG-HSMM
Date: 2009-05-24 18:55:03 UTC
From: Kipton Moravec
Topic: 1394 Message: 1403

On Sun, 2009-05-24 at 17:45 +0000, J. Gordon Beattie, Jr., W2TTT wrote:
> Kip and John,
>
> Dallas is a long way from New Jersey!
>
> :-)
>
> Materials and an preparation outline would be of great interest here.
>
> Several of us are interested in this topic for EMCOM and technology reasons.
>

When I get it finished I will put it on line.

Kip
>
--

Kipton Moravec AE5IB .- . ... -...
==========
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1404. RE: [ntms-hsmm] DD-WRT for HSMM Workshop

Yahoo group: DAWG-HSMM
Date: 2009-05-25 04:50:09 UTC
From: Glenn Currie
Topic: 1394 Message: 1404

All,

Do what you can to help get HSMM information into the ham community.

We have done quite a bit of HSMM work here in the Austin TX area, and we had to make a variety of choices. Some worked out and some we had to go back and change.

Just looking through the different 3 party firmware releases for these very capable consumer Wi-Fi wireless routers is overwhelming even for a avid readier and firmware writer like myself.

The variant of HSMM making use of the inexpensive consumer wireless routers, is a tremendously important topic and we need to get as many hams as possible interested in it.

Microwave and computer networking is not every ham's "cup of tea", but we need to help other hams understand that the rest of the world makes massive use of the type of communications supported by these Wi-Fi routers and we need to be ready to help served agencies that make massive use of this type of radio communications.

If there is some material that could be slipped into one of John's HSMM slots, I would encourage giving it a shot.

I am still struggling with my ARES-MESH presentation in that there is so much to cover, I could easily talk for a weeks worth of presentations, if my voice would hold out. I am also not an ace at making power point type slides - it takes me quite a bit of time to make a reasonable set of slides.

(I know some Power Point experts that knock out presentations over night - I am not one of them!)

The whole field of computer networking, via wires / fiber optics, is huge, add the RF variant and you have even more material to cover.

I took a quick look at the DD-WRT firmware website (I am more familiar with Open-WRT) and it is clear that the different firmware releases all have a wide variety of useful features.

I have spent many hours working with the Open-WRT development system and it is a huge effort to dig into - after coming home from working on a computer programming all day (not a good way to stay a balanced person ;-) We need more developers!

What I take away from the past few years is that I consider hams getting into HSMM in a big way, is essential. As I said, not all hams are going to want to get into it, but not to be up on one of the most pervasive uses of radio - in our own

bands - for cheap - is something we can't let pass us by.

The task is very large so the sooner we can start getting more info out to hams the better.

The variant of firmware that the Austin HSMM SIG has developed makes use of Open-WRT firmware as this was the shortest path to implementing Optimum Link State Routing (OLSR). Emergency situation configuration is a real problem so we burn the users call sign into the flash memory as part of the firmware update process. Each mesh node has a unique address (due to a type of hasing function we make use of).

There is no software configuration in the field, unless you are one of the half a dozen developers that ever does that sort of thing. You simply turn the unit on and all mesh nodes within RF range will automatically link in about 30 seconds after power on. With a working network up, you can also pre assign resources like cameras servers etc.

Most users never do this. They simply turn on their Linksys WRT54GL with ARES-MESH firmware and go to book marked places in their web browsers - this is where the cameras and web servers have been book marked.

If a link goes down, if there is an alternate path available in the collection of mesh nodes, the route is changed automatically with no user intervention. They would have to be watching a network monitor to know anything changed.

The main challenge is to simply try to have enough mesh nodes in a particular area so there are always multiple paths to anywhere you wish to reach.

ARES-MESH can operate completely independently of the Internet, or it can be connected to the Internet.

If you plug in a live Internet connection into the WAN port on the back of any of the live mesh nodes, all other nodes in the area are on the net in under 30 seconds with no user intervention - except someone plugged in the Internet link. (What about plugging in more than one Internet link into a live mesh - we are still busy! - for now keep the system admin informed before plugging in more Internet connection! We hope to split the load smartly but that is for a future version of the firmware.)

We are rolling out ARES-MESH in the Austin AREA. My health problems have caused delays, but I am moving as fast as I can.

With all that I have done with the HSMM stuff in the past few years, it gives me a perspective on how much we still need to do and how much more there is to learn about this technology to make the most of it.

Getting folks going with DD-WRT and on the air is something I would encourage. With all the effort I have put into my HSMM work - Kip is right about the importance of having a nice GUI for users to use and learn with. We put some in our 3rd firmware release based on Open-WRT due to user feedback - but there is limited memory in the routers and the graphics takes precious bytes.

While helping take a tower down today, it came to me that it would be most helpful to show hams how to load alternate firmware into a wireless router and get it on the air. DD-WRT has a nice GUI so it is a good place to start and there are people on this list that have experience with it.

You can get to a command line in any of the firmware releases I am aware of - the GUI is built on top of it - but save that for later. Setting up a working HSMM link, getting experience with the antennas and the magic of spread spectrum is all very important stuff to know and it can be put to use quickly.

Each large project like compressed video, VoIP etc, are all VERY large topics in themselves. We need to get some "hands on" demos going on. We do what we can to support hams in the Austin area, but one of my biggest concerns is not being able to support hams in other places, after I give my Hamcom presentation.

So due to the input from this mailing list, I am going to make a focused effort to get a program going to show hams how to load some good 3rd party firmware, set channels, set SSID, and pass some data. Get on the air and learn about some of the other stuff later!

The OLSR auto link work we have done can be real useful in a lot of applications, but it is just one of an almost endless number of things hams can do with HSMM.

Whatever else we do, a basic firmware load, configuration and passing data class / demo is something we just have to get well documented and widely available in ham circles.

Enough for now. Thanks for the discussion and ideas.

-Glenn
KD5MFW

--- On Sun, 5/24/09, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: RE: [ntms-hsmm] DD-WRT for HSMM Workshop
To: ntms-hsmm@yahoogroups.com
Date: Sunday, May 24, 2009, 1:55 PM

On Sun, 2009-05-24 at 17:45 +0000, J. Gordon Beattie, Jr., W2TTT wrote:

> Kip and John,

>

> Dallas is a long way from New Jersey!

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> :-)

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> Materials and an preparation outline would be of great interest here.

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Kipton Moravec AE5IB .- . ... -...

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- Herbert J Taylor (1932)

[Non-text portions of this message have been removed]

1405. plano gov't wifi mesh

Yahoo group: DAWG-HSMM
Date: 2009-06-14 12:19:26 UTC
From: Robert Ellis
Topic: 1405 Message: 1405

I attended the hamcom sessions on hsmm and found them to be very informative. I particularly liked the demonstration at the end of the session in which a mesh node to which a $19.95 webcam was walked from the session room to the flea market area, passing by several other mesh nodes, and maintained a video image to the wifi hardware in the session room.

While there, I heard someone behind me chatting about the public service mesh wifi hardware that Plano is using to support its police cars. I was a little curious about that, so poked around on the internet. Others in Plano might be interested in what Plano is using.

- Plano has spent $8m (to Motorola for its Quattro wireless mesh hardware), and $21m for its Technical Services Department which includes equipment for its Public Service Wireless Mesh Network, including installation and maintenance.
(http://pdf.plano.gov/agendas/ccminutes/cm121906.pdf
)
- information on Motorola's Quattro motomesh:
http://www.motorola.com/statichtml/MOTOMESH_Quattro.html
. (This is a four radio system that uses licensed 4.9GHz radios, as well as unlicensed 2.4GHz radios. You'll be pleased to know that Wifi connections to the police vehicles is good up to 150mph.)
- here's a nice Motorola article that talks, in general, a little about mesh network, and provides some pretty pictures: http://tinyurl.com/mvbymr
- here's another Motorola article that talks about reliability and using the unlicensed spectrum. http://tinyurl.com/nxxm5w
- a Motorola article on using gps synchronization to reduce interference when multiple radios are used on one mast: http://tinyurl.com/l33x7g

(no, I don't work for Motorola)

Seeing all that Motorola has put into the Quattro system, and the prices that it charges, kind of makes me wonder what kind of MOU was reached between the Austin amateurs and the Austin hospitals and other Austin public service entities, with respect to reliability and quality of service. ;)

robert

1406. OLSR

Yahoo group: DAWG-HSMM
Date: 2009-06-14 17:50:40 UTC
From: Kipton Moravec
Topic: 1406 Message: 1406

Since hearing Glenn Currie's presentation on what they are doing in Austin, I have started reading up on OLSR. Last night I read Andreas Tønnesen's dissertation. It looks very interesting. I am looking forward to playing with it.

Kip
--

Kipton Moravec AE5IB .- . ... -...
==========
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1407. Re: [ntms-hsmm] OLSR

Yahoo group: DAWG-HSMM
Date: 2009-06-14 18:03:31 UTC
From: John Spoonhower
Topic: 1406 Message: 1407

Kip, is the dissertation publically available?
73, John, kc2du

John Spoonhower

--- On Sun, 6/14/09, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: [ntms-hsmm] OLSR
To: ntms-hsmm@yahoogroups.com
Date: Sunday, June 14, 2009, 1:50 PM

Since hearing Glenn Currie's presentation on what they are doing in

Austin, I have started reading up on OLSR. Last night I read Andreas

Tønnesen's dissertation. It looks very interesting. I am looking forward

to playing with it.

Kip

--

Kipton Moravec AE5IB .- . ... -...

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- Herbert J Taylor (1932)

[Non-text portions of this message have been removed]

1408. Re: [ntms-hsmm] plano gov't wifi mesh

Yahoo group: DAWG-HSMM
Date: 2009-06-14 18:23:38 UTC
From: Glenn Currie
Topic: 1405 Message: 1408

Good to hear from you.
I am glad you enjoyed the presentation.

The technology the Austin HSMM SIG has developed is good and getting better.

I am sad to see people with huge marketing budgets selling mesh and related gear at super high prices - and it works, sometimes an not others. We have limited resources, but will eventually have so many nodes that we will have good coverage in many areas of Austin, using very low priced gear.

Thanks for the pointers. I will check into them and continue to educate myself on this rapidly changing field - both the pros and cons! of what is happening!

Thanks,

-Glenn
kd5mfw

--- On Sun, 6/14/09, Robert Ellis <k5osx@...> wrote:

From: Robert Ellis <k5osx@...>
Subject: [ntms-hsmm] plano gov't wifi mesh
To: ntms-hsmm@yahoogroups.com
Date: Sunday, June 14, 2009, 7:19 AM

I attended the hamcom sessions on hsmm and found them to be very

informative. I particularly liked the demonstration at the end of the

session in which a mesh node to which a $19.95 webcam was walked from

the session room to the flea market area, passing by several other

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including installation and maintenance. (http://pdf.plano. gov/agendas/ ccminutes/ cm121906. pdf

)

- information on Motorola's Quattro motomesh: http://www.motorola .com/statichtml/ MOTOMESH_ Quattro.html

. (This is a four radio system that uses licensed 4.9GHz radios, as

well as unlicensed 2.4GHz radios. You'll be pleased to know that Wifi

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- here's a nice Motorola article that talks, in general, a little

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- here's another Motorola article that talks about reliability and

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- a Motorola article on using gps synchronization to reduce

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Austin public service entities, with respect to reliability and

quality of service. ;)

robert

[Non-text portions of this message have been removed]

1409. Re: [ntms-hsmm] OLSR

Yahoo group: DAWG-HSMM
Date: 2009-06-14 18:28:51 UTC
From: John Champa
Topic: 1406 Message: 1409

Here is my part of the presentation for those who could not make it.
Feel free to use any of it you wish. Just give credit please. Thanks.
More details to be published in the next issues of *CQ VHF Magazine*.

John K8OCL

On Sun, Jun 14, 2009 at 5:50 PM, Kipton Moravec <kip@...> wrote:

>
>
> Since hearing Glenn Currie's presentation on what they are doing in
> Austin, I have started reading up on OLSR. Last night I read Andreas
> Tønnesen's dissertation. It looks very interesting. I am looking forward
> to playing with it.
>
> Kip
> --
>
> Kipton Moravec AE5IB .- . ... -...
> ==========
> Four Way Test
> Is it the Truth?
> Is it Fair to all concerned?
> Will it build Goodwill and Better Friendships?
> Will it be Beneficial to all concerned?
> - Herbert J Taylor (1932)
>
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Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in
numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1410. Re: [ntms-hsmm] OLSR

Yahoo group: DAWG-HSMM
Date: 2009-06-15 03:45:36 UTC
From: Kipton Moravec
Topic: 1406 Message: 1410

Look at http://www.olsr.org/?q=links

The direct link to the dissertation is:
http://www.olsr.org/docs/report.pdf

You can find just about anything on the Internet. :)

Kip

On Sun, 2009-06-14 at 11:03 -0700, John Spoonhower wrote:
> Kip, is the dissertation publically available?
> 73, John, kc2du
>
> John Spoonhower
>
> --- On Sun, 6/14/09, Kipton Moravec <kip@...> wrote:
>
> From: Kipton Moravec <kip@...>
> Subject: [ntms-hsmm] OLSR
> To: ntms-hsmm@yahoogroups.com
> Date: Sunday, June 14, 2009, 1:50 PM
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Kipton Moravec AE5IB .- . ... -...
==========
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- Herbert J Taylor (1932)

1411. Re: [ntms-hsmm] OLSR

Yahoo group: DAWG-HSMM
Date: 2009-06-15 20:14:47 UTC
From: John Spoonhower
Topic: 1406 Message: 1411

thanks!

John Spoonhower

--- On Sun, 6/14/09, Kipton Moravec <kip@kdream.com> wrote:

From: Kipton Moravec <kip@...>
Subject: Re: [ntms-hsmm] OLSR
To: ntms-hsmm@yahoogroups.com
Date: Sunday, June 14, 2009, 11:45 PM

Look at http://www.olsr. org/?q=links

The direct link to the dissertation is:

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You can find just about anything on the Internet. :)

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On Sun, 2009-06-14 at 11:03 -0700, John Spoonhower wrote:

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>

> John Spoonhower

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> --- On Sun, 6/14/09, Kipton Moravec <kip@...m> wrote:

>

> From: Kipton Moravec <kip@...>

> Subject: [ntms-hsmm] OLSR

> To: ntms-hsmm@yahoogrou ps.com

> Date: Sunday, June 14, 2009, 1:50 PM

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> Tønnesen's dissertation. It looks very interesting. I am looking forward

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> to playing with it.

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> Kip

>

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Kipton Moravec AE5IB .- . ... -...

========== ========= ========= ========= =======

Four Way Test

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Will it build Goodwill and Better Friendships?

Will it be Beneficial to all concerned?

- Herbert J Taylor (1932)

[Non-text portions of this message have been removed]

1412. Re: [ntms-hsmm] OLSR

Yahoo group: DAWG-HSMM
Date: 2009-06-16 05:20:31 UTC
From: Rusty Haddock
Topic: 1406 Message: 1412

John Champa wrote:
>Here is my part of the presentation for those who could not make it.
>Feel free to use any of it you wish. Just give credit please. Thanks.
>More details to be published in the next issues of *CQ VHF Magazine*.

Sorry John, but either Yahoo stripped the attachment of your presentation
or you forgot to actually attach it to your email. Any chance you and
Glenn could put your presentations in the Files section for the group
on Yahoo? Either that or post a link.

Thanks... and enjoyed the presentations!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1413. WiFi and ARRL Band Plan

Yahoo group: DAWG-HSMM
Date: 2009-06-21 18:13:30 UTC
From: Kipton Moravec
Topic: 1413 Message: 1413

Wifi Channels
Lower Center Upper
Channel Freq Freq Freq
1 2.401 2.412 2.423
2 2.404 2.417 2.428
3 2.411 2.422 2.433
4 2.416 2.427 2.438
5 2.421 2.432 2.443
6 2.426 2.437 2.448
7 2.431 2.442 2.453
8 2.436 2.447 2.458
9 2.441 2.452 2.463
10 2.451 2.457 2.468
11 2.451 2.462 2.473
==========
ARRL Band Plan

2300.0-2303.0 High-rate data
2303.0-2303.5 Packet
2303.5-2303.8 TTY packet
2303.9-2303.9 Packet, TTY, CW, EME
2303.9-2304.1 CW, EME
2304.1 Calling frequency
2304.1-2304.2 CW, EME, SSB
2304.2-2304.3 SSB, SSTV, FAX, Packet AM, Amtor
2304.30-2304.32 Propagation beacon network
2304.32-2304.40 General propagation beacons
2304.4-2304.5 SSB, SSTV, ACSSB, FAX, Packet AM,
Amtor experimental
2304.5-2304.7 Crossband linear translator input
2304.7-2304.9 Crossband linear translator output
2304.9-2305.0 Experimental beacons
2305.0-2305.2 FM simplex (25 kHz spacing)
2305.20 FM simplex calling frequency
2305.2-2306.0 FM simplex (25 kHz spacing)
2306.0-2309.0 FM Repeaters (25 kHz) input
2309.0-2310.0 Control and auxiliary links
2390.0-2396.0 Fast-scan TV
2396.0-2399.0 High-rate data
2399.0-2399.5 Packet
2399.5-2400.0 Control and auxiliary links
2400.0-2403.0 Satellite
2403.0-2408.0 Satellite high-rate data
2408.0-2410.0 Satellite
2410.0-2413.0 FM repeaters (25 kHz) output

2413.0-2418.0 High-rate data
2418.0-2430.0 Fast-scan TV
2430.0-2433.0 Satellite
2433.0-2438.0 Satellite high-rate data
2438.0-2450.0 WB FM, FSTV, FMTV, SS experimental

Note: The 2300 MHz band plan was adopted by the ARRL Board of Directors in January 1991

==========
It does not look like Texas has a different band plan than ARRL in these frequencies. Like they do in other bands.
==========

So now we have the data. Here are the questions:

According to the ARRL Band Plan, our WiFi equipment operates in the Satellite, Satellite High Data Rate, and WB FM, FSTV, FMTV, SS experimental parts of the ARRL band plan. Does anyone see a problem with this?

The other problem is that WiFi uses 22MHz of bandwidth and "High-rate data" is 4 or 5 MHz wide. There are no places in the band plan for a 22 MHz wide signal.

--

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- Herbert J Taylor (1932)

1414. Re: WiFi and ARRL Band Plan

Yahoo group: DAWG-HSMM
Date: 2009-06-22 01:16:24 UTC
From: Steve
Topic: 1413 Message: 1414

--- In ntms-hsmm@yahoogroups.com, Kipton Moravec <kip@...> wrote:

> So now we have the data. Here are the questions:
>
> According to the ARRL Band Plan, our WiFi equipment operates in the
> Satellite, Satellite High Data Rate, and WB FM, FSTV, FMTV, SS
> experimental parts of the ARRL band plan. Does anyone see a problem with
> this?
>
> The other problem is that WiFi uses 22MHz of bandwidth and "High-rate
> data" is 4 or 5 MHz wide. There are no places in the band plan for a 22
> MHz wide signal.
>

I could say a lot on this subject. But I can't speak any area other than where I live.

To be a "good ham." I've used a down converter to monitor 2.4 GHz for any traditional amateur use.

I also devised a few automatic ways to survey other bands such as 70cm for usage statistics.

A few years back I helped launch two 900 MHz repeaters that utilize 25 MHz splits. I made the grand mistake of trying to help get them coordinated mainly for advertising purposes, as there is very little activity in my state above 900 MHz.

The state coordination body didn't recognize anything other than the 12 MHz splits. And this whole ordeal really woke me up and irritated me about our bandplans. I have ever since had a horrible attitude about it all :-)

One of the purposes of a frequency coordinator is to recommend standard operating procedures. The frequency coordinator's main job is to make sure your repeater will not interfere with nearby repeaters already established.

They have the duty to not only produce bandplans that satisfy the needs of repeater owners within its area but also to protect the interests of coordinated systems in adjacent areas, weak signal modes, digital communications, AM and FM simplex, and satellite uplinks and downlinks. They define the bandplan for both coordinated and non-coordinated activities within its territory.

In the event your coordination body's band plan is behind the times; Aside from the FCC's frequency limits spelled out in Part 97, everything else is technically a voluntary band plan. If you decide not to comply with the voluntary plan, you should have good reason to do so, and should try your best not interfere with others.

Interestingly enough about 10 years ago there was an ARRL Request for Declaratory Ruling to the FCC.

"Amateur operators should be familiar with, and should abide by, the voluntary band plans that are applicable to the frequency bands in which they operate; and (2) due to the widespread acceptance of those band plans, any amateur who selects a station transmitting frequency not in harmony with those plans is not operating in accord with good amateur practice."

That request really sets me off as I do not agree with it's wording. I view that a overbearing, detrimental notion.

Good amateur practice to me is what I described. Make your best effort to check for other band use, like I try to do.

And if you determine the conventional band use doesn't offset your experimentation, then I tend to think what you are doing on our underutilized SHF bands IS in the best interest of the amateur radio service.

From what I have observed, the frequency coordinator's job (at state, regional and nation levels) isn't an on-the-air practice so it seems they are totally off the hook when it comes to holding up their duties.

Now with that off my chest I understand there is some ARRL Microwave Band Planning in it's initial stages that I welcome as it's long overdue in my opinion. So I do look forward to reading other peoples thoughts on how to tackle the problem of promoting ultra wide band data modes and somehow keeping some harmony with any existing activity on these bands.

1415. Re: [ntms-hsmm] Re: WiFi and ARRL Band Plan

Yahoo group: DAWG-HSMM
Date: 2009-06-22 01:58:26 UTC
From: Glenn Currie
Topic: 1413 Message: 1415

Many thanks for your remarks and experiences.

We live in changing times. Everyone understands that without some sort of coordination super valuable RF communications can quickly turn into an unusable mess.

Band plans do need to be updated at times, and to do a good job, we need to help coordinators know what is out there to be coordinated.

HSMM is new on the block and we need to let people know we are developing new modes, and want to play well with everyone, but need some bandwidth we can use with our inexpensive equipment.

Not an easy job, but people need good info to make good decisions so a number of us are doing what we can to let hams know what we are doing and what potential changes could help foster the new HSMM modes.

-Glenn

--- On Sun, 6/21/09, Steve <kb9mwr@...> wrote:

From: Steve <kb9mwr@...>
Subject: [ntms-hsmm] Re: WiFi and ARRL Band Plan
To: ntms-hsmm@yahoogroups.com
Date: Sunday, June 21, 2009, 8:16 PM

--- In ntms-hsmm@yahoogrou ps.com, Kipton Moravec <kip@....> wrote:

> So now we have the data. Here are the questions:

>

> According to the ARRL Band Plan, our WiFi equipment operates in the

> Satellite, Satellite High Data Rate, and WB FM, FSTV, FMTV, SS

> experimental parts of the ARRL band plan. Does anyone see a problem with

> this?

>

> The other problem is that WiFi uses 22MHz of bandwidth and "High-rate

> data" is 4 or 5 MHz wide. There are no places in the band plan for a 22

> MHz wide signal.

>

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[Non-text portions of this message have been removed]

1416. Re: [ntms-hsmm] WiFi and ARRL Band Plan

Yahoo group: DAWG-HSMM
Date: 2009-06-22 05:35:09 UTC
From: icra@galaxynet.com
Topic: 1413 Message: 1416

> According to the ARRL Band Plan, our WiFi equipment operates in
> the
> Satellite, Satellite High Data Rate, and WB FM, FSTV, FMTV, SS
> experimental parts of the ARRL band plan. Does anyone see a problem
> with
> this?
>
> The other problem is that WiFi uses 22MHz of bandwidth and
> "High-rate
> data" is 4 or 5 MHz wide. There are no places in the band plan for a
> 22
> MHz wide signal.
>

By FCC enforcement and the ARRL, following the band plan is 'good operating practice'....

You can use the gear under part 15 rules that states you can not interfere with licensed operators. If it does not interfere under part 15 rules, I see no reason you can not use it at
those same power levels under part 97 rules....no, it is not following the letter of part 97 rules,
but I think it follows the intent of cutting interference between modes.

There are a lot of modes that are protected by the band plans that are not active at all in my
area. Due to terrain, there is no way that other uses here would hurt those in other areas. Yet, by the letter of part 97 rules, I should not use other modes in those band segments.

The band plans need to be updated far more often than they are now to better use the RF spectrum we have.

Just my thoughts.....flame suit on.....

Mel
N7OKL

1417. Re: [ntms-hsmm] WiFi and ARRL Band Plan

Yahoo group: DAWG-HSMM
Date: 2009-06-22 05:58:24 UTC
From: Glenn Currie
Topic: 1413 Message: 1417

We live in a changing world.

It could be helpful for HSMM to have some band plan changes.
Let's think this through on what would make sense and negatively impact
the least number of uses and think about amending the band plan to help
support HSMM.

This needs a lot of thought and input. It is real easy for hams to ask the FCC
to make changes that end up making no sense - much less our own
"gentlemens" agreement band plans that the FCC lets us work out.

Keep the ideas coming.

-Glenn

--- On Mon, 6/22/09, icra@galaxynet.com <icra@...> wrote:

From: icra@... <icra@galaxynet.com>
Subject: Re: [ntms-hsmm] WiFi and ARRL Band Plan
To: ntms-hsmm@yahoogroups.com
Date: Monday, June 22, 2009, 12:35 AM

> According to the ARRL Band Plan, our WiFi equipment operates in

> the

> Satellite, Satellite High Data Rate, and WB FM, FSTV, FMTV, SS

> experimental parts of the ARRL band plan. Does anyone see a problem

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> this?

>

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> "High-rate

> data" is 4 or 5 MHz wide. There are no places in the band plan for a

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> MHz wide signal.

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Yet, by the letter of part 97 rules, I should not use other modes in those band segments.

The band plans need to be updated far more often than they are now to better use the RF

spectrum we have.

Just my thoughts.... ..flame suit on.....

Mel

N7OKL

[Non-text portions of this message have been removed]

1418. Re: [ntms-hsmm] WiFi and ARRL Band Plan

Yahoo group: DAWG-HSMM
Date: 2009-06-22 07:01:47 UTC
From: John Champa
Topic: 1413 Message: 1418

Kip,

Please keep in mind that the ARRL Band Plan was written almost a decade before 802.11 came into wide use. Also, recall that the ARRL Band Plan is only a recommendation. Local frequency coordination is decided by the Repeater Councils, most commonly for frequency pairs, but often for simplex channel use too.

I suggest that for all practical purposes you simply ignore the ARRL 2.4 GHz band plan, and focus more attention on coordinating with your local repeater council. That is exactly what they do too, anyway! (HI)

73,
John K8OCL

On Sun, Jun 21, 2009 at 6:13 PM, Kipton Moravec <kip@...> wrote:

>
>
> Wifi Channels
> Lower Center Upper
> Channel Freq Freq Freq
> 1 2.401 2.412 2.423
> 2 2.404 2.417 2.428
> 3 2.411 2.422 2.433
> 4 2.416 2.427 2.438
> 5 2.421 2.432 2.443
> 6 2.426 2.437 2.448
> 7 2.431 2.442 2.453
> 8 2.436 2.447 2.458
> 9 2.441 2.452 2.463
> 10 2.451 2.457 2.468
> 11 2.451 2.462 2.473
> ==========
> ARRL Band Plan
>
> 2300.0-2303.0 High-rate data
> 2303.0-2303.5 Packet
> 2303.5-2303.8 TTY packet
> 2303.9-2303.9 Packet, TTY, CW, EME
> 2303.9-2304.1 CW, EME
> 2304.1 Calling frequency
> 2304.1-2304.2 CW, EME, SSB
> 2304.2-2304.3 SSB, SSTV, FAX, Packet AM, Amtor
> 2304.30-2304.32 Propagation beacon network
> 2304.32-2304.40 General propagation beacons

> 2304.4-2304.5 SSB, SSTV, ACSSB, FAX, Packet AM,
> Amtor experimental
> 2304.5-2304.7 Crossband linear translator input
> 2304.7-2304.9 Crossband linear translator output
> 2304.9-2305.0 Experimental beacons
> 2305.0-2305.2 FM simplex (25 kHz spacing)
> 2305.20 FM simplex calling frequency
> 2305.2-2306.0 FM simplex (25 kHz spacing)
> 2306.0-2309.0 FM Repeaters (25 kHz) input
> 2309.0-2310.0 Control and auxiliary links
> 2390.0-2396.0 Fast-scan TV
> 2396.0-2399.0 High-rate data
> 2399.0-2399.5 Packet
> 2399.5-2400.0 Control and auxiliary links
> 2400.0-2403.0 Satellite
> 2403.0-2408.0 Satellite high-rate data
> 2408.0-2410.0 Satellite
> 2410.0-2413.0 FM repeaters (25 kHz) output
> 2413.0-2418.0 High-rate data
> 2418.0-2430.0 Fast-scan TV
> 2430.0-2433.0 Satellite
> 2433.0-2438.0 Satellite high-rate data
> 2438.0-2450.0 WB FM, FSTV, FMTV, SS experimental
>
> Note: The 2300 MHz band plan was adopted by the ARRL Board of Directors
> in January 1991
>
> ==========
> It does not look like Texas has a different band plan than ARRL in these
> frequencies. Like they do in other bands.
> ==========
>
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>
> According to the ARRL Band Plan, our WiFi equipment operates in the
> Satellite, Satellite High Data Rate, and WB FM, FSTV, FMTV, SS
> experimental parts of the ARRL band plan. Does anyone see a problem with
> this?
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> The other problem is that WiFi uses 22MHz of bandwidth and "High-rate
> data" is 4 or 5 MHz wide. There are no places in the band plan for a 22
> MHz wide signal.
>
> --
>
> Kipton Moravec AE5IB .- . ... -...
> ==========
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>
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>

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Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1419. Fwd: OFDM Activity

Yahoo group: DAWG-HSMM
Date: 2009-06-28 06:08:10 UTC
From: John Champa
Topic: 1419 Message: 1419

Hello!
**
Comments and suggestions for further experiments, please? John is looking for some other
stations to help with the experiements. Post your comments here and / or to John KD6OZH directly.
**
Thanks,
John K8OCL

---------- Forwarded message ----------
From: John B. Stephensen <kd6ozh@...>
Date: Thu, Jun 25, 2009 at 7:32 AM
Subject: OFDM Activity
To: k8ocl@...

Hi John,

I haven't done anything on 6 meters since the STA expired. I've been making a less expensive version of the DCP-1 hardware that is more flexible. The external microcontroller has been replaced by a soft CPU inside the FPGA. The winter TAPR newsletter has an article on this CPU and the source code is on the TAPR web site. I've ported all of the Verilog code developed during HSMM working group era to the new FPGA and a later version of the Xilinx develoment tools. The modules that were tied together in hardware are now peripherals for the soft CPU and several more have been added to support traditional analog modes. I've attached a block diagram and some pictures of the new PCBs. I plan to pulish more on the PCB and the rest of the Verilog and assembly language code as testing progresses.

This new board can generate and process 1-30 MHz RF directly. I'm now testing soft CPU code for the various modes and have SSB and ISB transmission and reception working plus FM and OFDM transmission. I should have FM and OFDM reception working soon. The soft CPU scheme allows the DCP-3 hardware to be easily switched between analog and digital modes so it can be used to build a general-purpose radio or fed into a transverter. The final configuration is intended to be a device that will switch between analog voice and TCP/IP data via the ethernet port.

I plan to do more on-the-air testing this summer. The new Verilog tuner and modem modules can handle signal bandwidths between 1.6 MHz and 500 Hz, so I'm no longer restricted to VHF and UHF. I may do initial testing on 80 meters with 6 kHz wide OFDM that could support 9.6 kbps under good conditions. Anything that will work on HF will work even better on VHF and UHF frequencies. Switching to 750 kHz wide 1.2 Mbps signals is now a matter of loading new filter coefficients from flash memory.

After testing on 80 m and 70 cm, I could apply for renewal of the STA for wideband 6-meter tests. However, it's probably more useful to find few other stations that could test on 80 m or 70 cm first. I had to use up 120 square inches of 4-layer PCB to get a prototype, so I made four DCP-3 PCBs and two other variations. One simple route to more widespread testing may be to produce a few adapters for transverters with 28 MHz IFs. I'll see what happens in the fall after I've done more on-air testing myself.

Since the DCP-3 is easily programmable there is another alternative for the 6-meter bands that is currenlty legal and could be developed. OFDM is limited to AM voice bandwidth on the VHF bands. However, 8PSK could fit in the same 20 kHz bandwidth as 9600 bps FSK and could operate at 3 times the data rate. I did put AX.25 accelerator logic in the FPGA, but it will be a while before I have time to test it on anything but the logic simulator. It's intended be used to implement 9.6-76.8 kbps FSK modems for amateur satellites which is what originally got me interested in doing a DSP project.

73,

John
KD6OZH

--
Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1420. Re: [ntms-hsmm] Fwd: OFDM Activity

Yahoo group: DAWG-HSMM
Date: 2009-06-28 17:31:01 UTC
From: Bill V WA7NWP
Topic: 1419 Message: 1420

Would there be some way to bring this to 222 MHz? I believe we have
100 KHz data channels allocated there (in this region) that have never
been used.

Bill - WA7NWP

On Sat, Jun 27, 2009 at 11:08 PM, John Champa<radioskyart@...> wrote:
>
>
> *Hello!*
> **
> *Comments and suggestions for further experiments, please? John is looking
> for some other*
> *stations to help with the experiements. Post your comments here and / or to
> John KD6OZH directly.*
> **
> *Thanks,*
> *John K8OCL*
>
> ---------- Forwarded message ----------
> From: John B. Stephensen <kd6ozh@...>
> Date: Thu, Jun 25, 2009 at 7:32 AM
> Subject: OFDM Activity
> To: k8ocl@...
>
> Hi John,
>
> I haven't done anything on 6 meters since the STA expired. I've been making
> a less expensive version of the DCP-1 hardware that is more flexible. The
> external microcontroller has been replaced by a soft CPU inside the FPGA.
> The winter TAPR newsletter has an article on this CPU and the source code is
> on the TAPR web site. I've ported all of the Verilog code developed during
> HSMM working group era to the new FPGA and a later version of the Xilinx
> develoment tools. The modules that were tied together in hardware are now
> peripherals for the soft CPU and several more have been added to support
> traditional analog modes. I've attached a block diagram and some pictures of
> the new PCBs. I plan to pulish more on the PCB and the rest of the Verilog
> and assembly language code as testing progresses.
>
> This new board can generate and process 1-30 MHz RF directly. I'm now
> testing soft CPU code for the various modes and have SSB and ISB
> transmission and reception working plus FM and OFDM transmission. I should
> have FM and OFDM reception working soon. The soft CPU scheme allows the
> DCP-3 hardware to be easily switched between analog and digital modes so it
> can be used to build a general-purpose radio or fed into a transverter. The

> final configuration is intended to be a device that will switch between
> analog voice and TCP/IP data via the ethernet port.
>
> I plan to do more on-the-air testing this summer. The new Verilog tuner and
> modem modules can handle signal bandwidths between 1.6 MHz and 500 Hz, so
> I'm no longer restricted to VHF and UHF. I may do initial testing on 80
> meters with 6 kHz wide OFDM that could support 9.6 kbps under good
> conditions. Anything that will work on HF will work even better on VHF and
> UHF frequencies. Switching to 750 kHz wide 1.2 Mbps signals is now a matter
> of loading new filter coefficients from flash memory.
>
> After testing on 80 m and 70 cm, I could apply for renewal of the STA for
> wideband 6-meter tests. However, it's probably more useful to find few other
> stations that could test on 80 m or 70 cm first. I had to use up 120 square
> inches of 4-layer PCB to get a prototype, so I made four DCP-3 PCBs and two
> other variations. One simple route to more widespread testing may be to
> produce a few adapters for transverters with 28 MHz IFs. I'll see what
> happens in the fall after I've done more on-air testing myself.
>
> Since the DCP-3 is easily programmable there is another alternative for the
> 6-meter bands that is currenlty legal and could be developed. OFDM is
> limited to AM voice bandwidth on the VHF bands. However, 8PSK could fit in
> the same 20 kHz bandwidth as 9600 bps FSK and could operate at 3 times the
> data rate. I did put AX.25 accelerator logic in the FPGA, but it will be a
> while before I have time to test it on anything but the logic simulator.
> It's intended be used to implement 9.6-76.8 kbps FSK modems for amateur
> satellites which is what originally got me interested in doing a DSP
> project.
>
> 73,
>
> John
> KD6OZH

1421. Re: WiFi and ARRL Band Plan

Yahoo group: DAWG-HSMM
Date: 2009-07-13 20:23:10 UTC
From: Steve
Topic: 1413 Message: 1421

--- In ntms-hsmm@yahoogroups.com, John Champa <radioskyart@...> wrote:
>
> Kip,
>
> Please keep in mind that the ARRL Band Plan was written almost a decade
> before 802.11 came into wide use. Also, recall that the ARRL Band Plan is
> only a recommendation. Local frequency coordination is decided by the
> Repeater Councils, most commonly for frequency pairs, but often for simplex
> channel use too.
>
> I suggest that for all practical purposes you simply ignore the ARRL 2.4 GHz
> band plan, and focus more attention on coordinating with your local repeater
> council. That is exactly what they do too, anyway! (HI)
>
> 73,
> John K8OCL

I assume this topic was brought up due to:

http://www.arrl.org/news/stories/2009/01/23/10585/?nc=1

Chairman and Liaison Appointments: Microwave Band Planning Committee: Tom Clark, K3IO, Chairman.

Also in the The ARRL Letter, Vol 27, No 29 (July 25, 2008), there is this interesting snippet:

* ARRL Board of Directors Plans the League's Future at Second 2008 Board Meeting

Regulatory Matters:
The Board voted to establish an ad hoc study committee to review Part 97 of the rules governing the Amateur Radio Service to ascertain what rule change(s) would be beneficial to promote wideband digital modes, while at the same time minimizing potential interference to narrowband modes.

Any bets that it takes another decade for the ARRL to come up with a set of ratified microwave bandplans?

1422. APRS in a Linksys Router

Yahoo group: DAWG-HSMM
Date: 2009-07-22 07:21:31 UTC
From: Kilgore
Topic: 1422 Message: 1422

Here's a link from The ARRL Contest Update for July 22, 2009 email

http://www.youtube.com/watch?v=VZS0bdYmtik

1423. Re: APRS in a Linksys Router

Yahoo group: DAWG-HSMM
Date: 2009-07-22 14:07:48 UTC
From: Chris Kantarjiev
Topic: 1422 Message: 1423

That would be me :-) Details are at

http://www.dimebank.com/cak/k6dbg/k6dbg_igate.html

73 de chris K6DBG

1424. Re: [ntms-hsmm] Re: APRS in a Linksys Router

Yahoo group: DAWG-HSMM
Date: 2009-07-22 14:37:19 UTC
From: Bill V WA7NWP
Topic: 1422 Message: 1424

It's probably the same router that was pictured in the latest QST?
Great job Chris!

>
> That would be me :-) Details are at
>
> http://www.dimebank.com/cak/k6dbg/k6dbg_igate.html
>
> 73 de chris K6DBG

Here's a link from The ARRL Contest Update for July 22, 2009 email

http://www.youtube.com/watch?v=VZS0bdYmtik

1425. HSMM Class August 22, in Lucas TX

Yahoo group: DAWG-HSMM
Date: 2009-07-22 23:09:48 UTC
From: Kipton Moravec
Topic: 1425 Message: 1425

Amateur Radio operators in Austin have modified the OpenWRT code to make a WiFi Mesh network. The software is functional but needs improvements. We are also looking at a custom processor board (Service Processor) to add some additional capabilities.
Session 1: 8:30 a.m. to 10:30 a.m. Overview of HSMM and the Austin software
Limit 30 people.

Requirements: Nothing needed.

This session will be a slide presentation of using off-the-shelf Linksys routers with custom software and better antennas. Example systems will be on display. We will talk about events where we have used them. Finally I will propose a HSMM network in Collin County, or the metroplex.

Session 2: 10:45 a.m. to 1:00 p.m. Loading and testing the Austin Code.
Limit 20 people.

Requirements: Bring a Linksys WRT54GL (v1.0 or 1.1) router and a computer (Windows or Linux with an Ethernet port.) Extension cord, Power Strip, an Ethernet Cable and if you have a HT bring it.

In this session we will take the compiled code and load it into the WRT54GL router. Then we will take the routers outside and show them automatically joining the mesh, and providing Internet access. If time permits we may do range testing.

Session 3: 2:30 p.m. – 5:00 p.m. Loading the development system and code
Limit 10 people.

Requirements: Bring a Linux computer, because the development system is in Linux. No version of Windows will work. Also bring a power strip, and Ethernet Cable

In the session we will load the development environment and software to compile the Linux Operating system, OpenWRT code, OLSR (Mesh SW) and Austin Modifications. When completed you will have created the same binary file as you used in Session 2. This is often the first obstacle for people wanting to modify the software. The software needs more work, and we are looking for people to help.

Please signup by emailing kip@... with what sessions you want to attend. There is a limit to the number of people I can accommodate so please do not sign up if you will not show up.

The class will be at Gary Johnson’s Pool House, 299 Connor Lane. Lucas, TX. The sessions will start promptly. So be there early.
--

Kipton Moravec AE5IB .- . ... -...
==========
Four Way Test
Is it the Truth?
Is it Fair to all concerned?
Will it build Goodwill and Better Friendships?
Will it be Beneficial to all concerned?
- Herbert J Taylor (1932)

1426. Re: [ntms-hsmm] HSMM Class August 22, in Lucas TX

Yahoo group: DAWG-HSMM
Date: 2009-07-23 16:40:15 UTC
From: John Spoonhower
Topic: 1425 Message: 1426

will the code and presentation (if available electronically) be posted so that others unable to attend can experiment?
73,
John, KC2DU

John Spoonhower

--- On Wed, 7/22/09, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: [ntms-hsmm] HSMM Class August 22, in Lucas TX
To: "HSMM Group" <ntms-hsmm@yahoogroups.com>
Date: Wednesday, July 22, 2009, 7:09 PM

Amateur Radio operators in Austin have modified the OpenWRT code to make

a WiFi Mesh network. The software is functional but needs improvements.

We are also looking at a custom processor board (Service Processor) to

add some additional capabilities.

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Kipton Moravec AE5IB .- . ... -...

========== ========= ========= ========= =======

Four Way Test

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[Non-text portions of this message have been removed]

1427. Re: [ntms-hsmm] HSMM Class August 22, in Lucas TX

Yahoo group: DAWG-HSMM
Date: 2009-07-23 18:05:08 UTC
From: Kipton Moravec
Topic: 1425 Message: 1427

That is the plan. I am working on the presentation.

Kip

On Thu, 2009-07-23 at 09:40 -0700, John Spoonhower wrote:
> will the code and presentation (if available electronically) be posted so that others
unable to attend can experiment?
> 73,
> John, KC2DU
>
> John Spoonhower
>
> --- On Wed, 7/22/09, Kipton Moravec <kip@...> wrote:
>
> From: Kipton Moravec <kip@...>
> Subject: [ntms-hsmm] HSMM Class August 22, in Lucas TX
> To: "HSMM Group" <ntms-hsmm@yahoogroups.com>
> Date: Wednesday, July 22, 2009, 7:09 PM
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> Amateur Radio operators in Austin have modified the OpenWRT code to make
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> add some additional capabilities.
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>
> software

>
> Limit 30 people.
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>
>
> Requirements: Nothing needed.
>
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> This session will be a slide presentation of using off-the-shelf Linksys
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> routers with custom software and better antennas. Example systems will
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> be on display. We will talk about events where we have used them.
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> Finally I will propose a HSMM network in Collin County, or the
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> computer (Windows or Linux with an Ethernet port.) Extension cord, Power
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> Strip, an Ethernet Cable and if you have a HT bring it.
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> In this session we will take the compiled code and load it into the
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> automatically joining the mesh, and providing Internet access. If time
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>
>
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>
> code
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>
>
>
> Requirements: Bring a Linux computer, because the development system is
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>
>
>
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> Austin Modifications. When completed you will have created the same
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> binary file as you used in Session 2. This is often the first obstacle
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> for people wanting to modify the software. The software needs more work,
>
> and we are looking for people to help.
>
>
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> Please signup by emailing kip@... with what sessions you want to
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> attend. There is a limit to the number of people I can accommodate so
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--

Kipton Moravec AE5IB .- . ... -...
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1428. Re: Ubiquiti Networks - XR1 VHF Module | No Joy on 1.25m

Yahoo group: DAWG-HSMM
Date: 2009-08-03 02:04:05 UTC
From: Steve
Topic: 1387 Message: 1428

Sorry for reviving an old thread.

But I just learned that the XR-1 is an built to order Ubiquiti product. (Not that they do that sort of thing)

While there is a minimum quantity of 1000 piece per order due to the custom frequency, it does work out to about $150 per unit.

To bad this thing doesn't fit better into the 220 MHz band. One would think TAPR or someone could get behind this since the end user ham price is reasonable.

> Per Ubiquiti Networks Support Team:
>
> This card does not have these capabilities and is not legal for sale in
> the US.
>
>

1429. Re: [ntms-hsmm] Re: Ubiquiti Networks - XR1 VHF Module | No Joy on 1.25m

Yahoo group: DAWG-HSMM
Date: 2009-08-03 04:06:29 UTC
From: ALERTradio ERC | N0PCO
Topic: 1387 Message: 1429

The next best possibility is at 420-440MHz, join up Digital-ATV with HSMM.

What's the possibilities in the 70cm band?

Steve wrote:
>
>
> Sorry for reviving an old thread.
>
> But I just learned that the XR-1 is an built to order Ubiquiti
> product. (Not that they do that sort of thing)
>
> While there is a minimum quantity of 1000 piece per order due to the
> custom frequency, it does work out to about $150 per unit.
>
> To bad this thing doesn't fit better into the 220 MHz band. One would
> think TAPR or someone could get behind this since the end user ham
> price is reasonable.
>
> > Per Ubiquiti Networks Support Team:
> >
> > This card does not have these capabilities and is not legal for sale in
> > the US.
> >
> >
>
>

[Non-text portions of this message have been removed]

1430. Re: [ntms-hsmm] plano gov't wifi mesh

Yahoo group: DAWG-HSMM
Date: 2009-08-04 20:14:06 UTC
From: Robert Ellis
Topic: 1405 Message: 1430

On Jun 14, 2009, at 7:19 AM, Robert Ellis wrote:

> - Plano has spent $8m (to Motorola for its Quattro wireless mesh
> hardware), and $21m for its Technical Services Department which
> includes equipment for its Public Service Wireless Mesh Network,
> including installation and maintenance.
(http://pdf.plano.gov/agendas/ccminutes/cm121906.pdf
>)

Looks like the Plano public service wireless network will be used for more than just police... it will also be used by your lowly automated water meter (AMR) to send usage data to the plano water department.

(My water line was worked on this morning.) The current Datamatic Firefly drive-by RF AMR equipment will get updated to wifi over the next 5 years. Alas, it seems that while Datamatic, a Plano based company, supplies the Firefly AMR, the 2007 bid to update Plano's AMRs to wifi was won by HD Supply, partially owned by the Carlyle Group. However, even though the upgrade started in 1-dec-08, it seems that there are still wifi teething problems (of an unspecified nature). Cost of this wifi upgrade? $18M. I wonder how big the battery used by the wifi AMR is?

robert

PS:
All this time I thought that Plano had replaced my metal meter cover with a plastic one so that they could recycle the steel cover and make some money. My ham radio thinking cap wasn't on: radio waves pass through plastic easier than metal. In the past, during heavy rains, some street meter lids floated away when they weren't fastened down to meter lid moorings. (http://tinyurl.com/ncxsom) So, if you are out driving on a Skywarn night, occasionally look down for a floating lid.

PPS:
For those of you, in water restricted environments like Austin, who think you can sneak some water onto your lawn in the middle of the night... the automatic meters keep track of when the water flows, even the times during the day. So, late night water usage could be interpreted as lawn watering... if there's a pattern, some public employee might wander by in an electric car to catch you in the act. ;) Isn't technology wonderful?

1431. Re: [ntms-hsmm] plano gov't wifi mesh

Yahoo group: DAWG-HSMM
Date: 2009-08-04 20:19:26 UTC
From: John Champa
Topic: 1405 Message: 1431

The full explanation of Part 97 use of HSMM-MESH (r) networking as
*implemented by the Austin HSMM SIG is now **covered in the current*
issue CQ VHF Magazine starting on page 38.
**
The next issue will go into the details of the xtal-mod ("HSMM VFO").
**
73,
*John K8OCL
*
On Tue, Aug 4, 2009 at 8:14 PM, Robert Ellis <k5osx@...> wrote:

>
>
>
> On Jun 14, 2009, at 7:19 AM, Robert Ellis wrote:
>
> > - Plano has spent $8m (to Motorola for its Quattro wireless mesh
> > hardware), and $21m for its Technical Services Department which
> > includes equipment for its Public Service Wireless Mesh Network,
> > including installation and maintenance. (
> http://pdf.plano.gov/agendas/ccminutes/cm121906.pdf
> >)
>
> Looks like the Plano public service wireless network will be used for
> more than just police... it will also be used by your lowly automated
> water meter (AMR) to send usage data to the plano water department.
>
> (My water line was worked on this morning.) The current Datamatic
> Firefly drive-by RF AMR equipment will get updated to wifi over the
> next 5 years. Alas, it seems that while Datamatic, a Plano based
> company, supplies the Firefly AMR, the 2007 bid to update Plano's AMRs
> to wifi was won by HD Supply, partially owned by the Carlyle Group.
> However, even though the upgrade started in 1-dec-08, it seems that
> there are still wifi teething problems (of an unspecified nature).
> Cost of this wifi upgrade? $18M. I wonder how big the battery used by
> the wifi AMR is?
>
> robert
>
> PS:
> All this time I thought that Plano had replaced my metal meter cover
> with a plastic one so that they could recycle the steel cover and make
> some money. My ham radio thinking cap wasn't on: radio waves pass
> through plastic easier than metal. In the past, during heavy rains,
> some street meter lids floated away when they weren't fastened down to

> meter lid moorings. (http://tinyurl.com/ncxsom) So, if you are out
> driving on a Skywarn night, occasionally look down for a floating lid.
>
> PPS:
> For those of you, in water restricted environments like Austin, who
> think you can sneak some water onto your lawn in the middle of the
> night... the automatic meters keep track of when the water flows, even
> the times during the day. So, late night water usage could be
> interpreted as lawn watering... if there's a pattern, some public
> employee might wander by in an electric car to catch you in the
> act. ;) Isn't technology wonderful?
>
>
>

--
Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in
numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1432. Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-04 21:37:29 UTC
From: Dave
Topic: 1432 Message: 1432

I recently got an email about HSMM. I read a few articles and searched the net here and there. I see that you need a ext. antenna, wifi router and a microphone. One of the articles said something about a microwave radio which could be had cheaply for 60-80 dollars. I havent been able to find out more about what all equipment is needed. I still not getting how it works I guess. I have antenna restrictions but I have most of the equipment I think. Point me in the right direction please !

73'
N5SNB

Dave

1433. Re: [ntms-hsmm] Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-04 22:06:53 UTC
From: John Champa
Topic: 1432 Message: 1433

Excellent questions! However, for me at least (maybe somebody else?) that is a lot
to put in a posting that would not bore all the old HSMM radio hands here! (HI)
**
*Have you read the ARRL VHF Digital Handbook by Steve Ford, WB8AMY? *
That would be a great start. There is an entire chapter there on HSMM radio.
**
73,
*John K8OCL

*
On Tue, Aug 4, 2009 at 9:37 PM, Dave <baldcowboy@...> wrote:

>
>
> I recently got an email about HSMM. I read a few articles and searched the
> net here and there. I see that you need a ext. antenna, wifi router and a
> microphone. One of the articles said something about a microwave radio which
> could be had cheaply for 60-80 dollars. I havent been able to find out more
> about what all equipment is needed. I still not getting how it works I
> guess. I have antenna restrictions but I have most of the equipment I think.
> Point me in the right direction please !
>
> 73'
> N5SNB
>
> Dave
>
>
>

--
Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1434. Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-04 22:32:24 UTC
From: Dave
Topic: 1432 Message: 1434

Actually I was reading an article called HSMM Radio Equipment from 2004 by some guy name John Champa, K8OCL. If I have to read a book to understand it though, its not something I am interested in.

--- In ntms-hsmm@yahoogroups.com, John Champa <radioskyart@...> wrote:
>
> *Excellent questions! However, for me at least (maybe somebody else?) that
> is a lot*
> *to put in a posting that would not bore all the old HSMM radio hands here!
> (HI)*
> **
> *Have you read the ARRL VHF Digital Handbook by Steve Ford, WB8AMY? *
> *That would be a great start. There is an entire chapter there on HSMM
> radio.*
> **
> *73,*
> *John K8OCL
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> *
> On Tue, Aug 4, 2009 at 9:37 PM, Dave <baldcowboy@...> wrote:
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> >
> >
> > I recently got an email about HSMM. I read a few articles and searched the
> > net here and there. I see that you need a ext. antenna, wifi router and a
> > microphone. One of the articles said something about a microwave radio which
> > could be had cheaply for 60-80 dollars. I havent been able to find out more
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> >
> >
>
>
>
> --
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> "When you can measure what you are speaking about, and express it in

> numbers, you know something about it." [Lord Kelvin 1824-1907]
>
>
> [Non-text portions of this message have been removed]
>

1435. Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-04 22:46:57 UTC
From: Dave
Topic: 1432 Message: 1435

OK OK ! I think I finally got the missing part ! You have to FLASH the firmware on the router so it basically becomes the XTMR for Ham Band.I some how missed that part in the articles. Once flash its a qrp microwave 2.4 ghz wifi xtmr with your call sign attached as the SSID ??

THANKS !!

--- In ntms-hsmm@yahoogroups.com, "Dave" <baldcowboy@...> wrote:
>
> Actually I was reading an article called HSMM Radio Equipment from 2004 by some guy name John Champa, K8OCL. If I have to read a book to understand it though, its not something I am interested in.
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> --- In ntms-hsmm@yahoogroups.com, John Champa <radioskyart@> wrote:
> >
> > *Excellent questions! However, for me at least (maybe somebody else?) that
> > is a lot*
> > *to put in a posting that would not bore all the old HSMM radio hands here!
> > (HI)*
> > **
> > *Have you read the ARRL VHF Digital Handbook by Steve Ford, WB8AMY? *
> > *That would be a great start. There is an entire chapter there on HSMM
> > radio.*
> > **
> > *73,*
> > *John K8OCL
> >
> > *
> > On Tue, Aug 4, 2009 at 9:37 PM, Dave <baldcowboy@> wrote:
> >
> > >
> > >
> > > I recently got an email about HSMM. I read a few articles and searched the
> > > net here and there. I see that you need a ext. antenna, wifi router and a
> > > microphone. One of the articles said something about a microwave radio which
> > > could be had cheaply for 60-80 dollars. I havent been able to find out more
> > > about what all equipment is needed. I still not getting how it works I
> > > guess. I have antenna restrictions but I have most of the equipment I think.
> > > Point me in the right direction please !

> > >
> > > 73'
> > > N5SNB
> > >
> > > Dave
> > >
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> > --
> > Nisciune nasce imparate
> >
> > "When you can measure what you are speaking about, and express it in
> > numbers, you know something about it." [Lord Kelvin 1824-1907]
> >
> >
> > [Non-text portions of this message have been removed]
> >
>

1436. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-04 23:44:52 UTC
From: Robert Ellis
Topic: 1432 Message: 1436

Dave,

On Aug 4, 2009, at 5:46 PM, Dave wrote:

> OK OK ! I think I finally got the missing part ! You have to FLASH
> the firmware on the router so it basically becomes the XTMR for Ham
> Band.I some how missed that part in the articles. Once flash its a
> qrp microwave 2.4 ghz wifi xtmr with your call sign attached as the
> SSID ??

Basically correct. Be aware that the wifi channels that you can
utilize for the FCC part 97 license overlap partially with the FCC
part 15 unlicensed channels. You can see how they overlap here:
http://en.wikipedia.org/wiki/High_Speed_Multimedia#Frequencies_and_channels
. There's nothing to prevent you from flashing your wifi router and
continuing to use the unlicensed channels, as long as you don't exceed
the restrictions placed on part 15 devices. (Eg, if you don't change
the antennas or increase the power of your off-the-shelf wifi router.)
Higher gain antennas and more power, resulting in more effective
radiated power, will require you to add your callsign and use only the
part 97 channels.

I think that the main purpose in flashing the firmware on the router
is to increase the capabilities of the device. The firmware that
linksys provides is sufficient providing an access point in a home.
Two popular sources of firmware that can be installed on specific
models of linksys routers are dd-wrt (http://www.dd-wrt.com/dd-wrtv3/dd-wrt/about.html
) and openwrt (www.openwrt.org).

I don't think you need a book to get started in hsmm, but certainly
the more you know, the fewer frustrations you'll have. Others have
recommended this book on 802.11: http://oreilly.com/catalog/9780596100520
. If you haven't seen n5oom's pages on hsmm, I recommend them: http://www.n5oom.org/hsmm
.

robert

>
> THANKS !!
>

1437. Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-04 23:51:18 UTC
From: Steve
Topic: 1432 Message: 1437

Hi Dave,

Actually I don't think the VHF digital hand book doesn't dive into the firmware aspects. You don't have to flash as the Part 15 (unlicensed wifi band) does overlap the 2400-2450 MHz amateur radio allocations.

You just have to be sure to select one of the overlapping Channels 1-6

Since the publication of that handbook, the Atheros chipset has become the hot snot (in my opinion), as it is possible via flashing to unlock other ham-only channels that are not in the overlapping sections.

--- In ntms-hsmm@yahoogroups.com, "Dave" <baldcowboy@...> wrote:
>
> OK OK ! I think I finally got the missing part ! You have to FLASH the firmware on the router so it basically becomes the XTMR for Ham Band.I some how missed that part in the articles. Once flash its a qrp microwave 2.4 ghz wifi xtmr with your call sign attached as the SSID ??
>
> THANKS !!

1438. RE: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-05 00:09:08 UTC
From: Dave T
Topic: 1432 Message: 1438

Ive been running DD-WRT on my Buffalo router for a long time so I am kind of familiar with it. I understand the concept now. I have a 24db parabolic for 2.4 gig already. So I like the flash idea J

Thanks for the gap filing info

73'

Dave

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Steve
Sent: Tuesday, August 04, 2009 6:51 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Trying to understand HSMM

Hi Dave,

Actually I don't think the VHF digital hand book doesn't dive into the firmware aspects. You don't have to flash as the Part 15 (unlicensed wifi band) does overlap the 2400-2450 MHz amateur radio allocations.

You just have to be sure to select one of the overlapping Channels 1-6

Since the publication of that handbook, the Atheros chipset has become the hot snot (in my opinion), as it is possible via flashing to unlock other ham-only channels that are not in the overlapping sections.

--- In ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com> , "Dave" <baldcowboy@...> wrote:
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> OK OK ! I think I finally got the missing part ! You have to FLASH the firmware on the router so it basically becomes the XTMR for Ham Band.I some how missed that part in the articles. Once flash its a qrp microwave 2.4 ghz wifi xtmr with your call sign attached as the SSID ??
>
> THANKS !!

[Non-text portions of this message have been removed]

1439. RE: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-05 00:30:28 UTC
From: Dave T
Topic: 1432 Message: 1439

I just looked at my Buffalo DD_WRT firmware and it already supports HSMM ! Also the Buffalo router is adjustable up to 250mw of power right out of the box ! Sounds like a good candidate for HSMM on ham bands.

Dave

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Steve
Sent: Tuesday, August 04, 2009 6:51 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Trying to understand HSMM

Hi Dave,

Actually I don't think the VHF digital hand book doesn't dive into the firmware aspects. You don't have to flash as the Part 15 (unlicensed wifi band) does overlap the 2400-2450 MHz amateur radio allocations.

You just have to be sure to select one of the overlapping Channels 1-6

Since the publication of that handbook, the Atheros chipset has become the hot snot (in my opinion), as it is possible via flashing to unlock other ham-only channels that are not in the overlapping sections.

--- In ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com> , "Dave" <baldcowboy@...> wrote:
>
> OK OK ! I think I finally got the missing part ! You have to FLASH the firmware on the router so it basically becomes the XTMR for Ham Band.I some how missed that part in the articles. Once flash its a qrp microwave 2.4 ghz wifi xtmr with your call sign attached as the SSID ??
>
> THANKS !!

[Non-text portions of this message have been removed]

1440. RE: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-05 03:16:29 UTC
From: Kipton Moravec
Topic: 1432 Message: 1440

Careful while the SW allows you to go to 250 mW, often the HW does not.
The HW can usually safely go to 70 mW without damage. Going above that
can get the transmitter too hot and damage the chips.

Are you near Dallas? We are having a HSMM Seminar in Lucas (East of
Allen) on August 22.

Kip

On Tue, 2009-08-04 at 19:30 -0500, Dave T wrote:
> I just looked at my Buffalo DD_WRT firmware and it already supports HSMM !
> Also the Buffalo router is adjustable up to 250mw of power right out of the
> box ! Sounds like a good candidate for HSMM on ham bands.
>
>
>
> Dave
>
>
>
>
>
> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
> Of Steve
> Sent: Tuesday, August 04, 2009 6:51 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Re: Trying to understand HSMM
>
>
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>
> Hi Dave,
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> Actually I don't think the VHF digital hand book doesn't dive into the
> firmware aspects. You don't have to flash as the Part 15 (unlicensed wifi
> band) does overlap the 2400-2450 MHz amateur radio allocations.
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> You just have to be sure to select one of the overlapping Channels 1-6
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> Since the publication of that handbook, the Atheros chipset has become the
> hot snot (in my opinion), as it is possible via flashing to unlock other
> ham-only channels that are not in the overlapping sections.
>
> --- In ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com> ,
> "Dave" <baldcowboy@...> wrote:

> >
> > OK OK ! I think I finally got the missing part ! You have to FLASH the
> firmware on the router so it basically becomes the XTMR for Ham Band.I some
> how missed that part in the articles. Once flash its a qrp microwave 2.4 ghz
> wifi xtmr with your call sign attached as the SSID ??
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> > THANKS !!
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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Kipton Moravec AE5IB .- . ... -...
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Four Way Test
Is it the Truth?
Is it Fair to all concerned?
Will it build Goodwill and Better Friendships?
Will it be Beneficial to all concerned?
- Herbert J Taylor (1932)

1441. Re: [ntms-hsmm] Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-05 03:17:59 UTC
From: Kipton Moravec
Topic: 1432 Message: 1441

Woops wrong Dave.

This Dave,

We have a HSMM Seminar in Lucas on August 22. Did you see the
announcement?

Kip

On Tue, 2009-08-04 at 21:37 +0000, Dave wrote:
> I recently got an email about HSMM. I read a few articles and searched the net here and there. I see that you need a ext. antenna, wifi router and a microphone. One of the articles said something about a microwave radio which could be had cheaply for 60-80 dollars. I havent been able to find out more about what all equipment is needed. I still not getting how it works I guess. I have antenna restrictions but I have most of the equipment I think. Point me in the right direction please !
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> 73'
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> Dave
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Kipton Moravec AE5IB .- . ... -...
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- Herbert J Taylor (1932)

1442. RE: [ntms-hsmm] Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-05 03:25:08 UTC
From: Dave T
Topic: 1432 Message: 1442

Yes I saw something about Lucas. I live close by in Melissa. I ll see what work has for me on that day.

THANKS !

Dave

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Kipton Moravec
Sent: Tuesday, August 04, 2009 10:18 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Trying to understand HSMM

Woops wrong Dave.

This Dave,

We have a HSMM Seminar in Lucas on August 22. Did you see the announcement?

Kip

On Tue, 2009-08-04 at 21:37 +0000, Dave wrote:
> I recently got an email about HSMM. I read a few articles and searched the net here and there. I see that you need a ext. antenna, wifi router and a microphone. One of the articles said something about a microwave radio which could be had cheaply for 60-80 dollars. I havent been able to find out more about what all equipment is needed. I still not getting how it works I guess. I have antenna restrictions but I have most of the equipment I think. Point me in the right direction please !
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Kipton Moravec AE5IB .- . ... -...
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- Herbert J Taylor (1932)

[Non-text portions of this message have been removed]

1443. RE: [ntms-hsmm] Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-05 05:16:31 UTC
From: Glenn Currie
Topic: 1432 Message: 1443

I would highly recommend attending Kip's presentation, if at all possible.

There are a limited number of people that have done significant field work
with HSMM and are working to help spread the information around. Kip is
one of them. I was fortunate enough to meet him at Hamcom 2009 this year.

There is some great stuff that can be done with HSMM and being the radios
are in mass produced consumer equipment, the price is stunningly low for
such technology. Some might assume that because they are relatively inexpensive
that current wireless routers don't have much inside them. They actually have
some of the most stunning technology around and it is only because the units
are sold by the millions that the price is so low.

This is truly the chance of a lifetime tor hams to get amazingly cheap radios
that are amazingly capable.

-Glenn
KD5MFW
kd5mfw@...

--- On Tue, 8/4/09, Dave T <baldcowboy@...> wrote:

From: Dave T <baldcowboy@baldcowboy.com>
Subject: RE: [ntms-hsmm] Trying to understand HSMM
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, August 4, 2009, 10:25 PM

Yes I saw something about Lucas. I live close by in Melissa. I ll see what

work has for me on that day.

THANKS !

Dave

From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com] On Behalf

Of Kipton Moravec

Sent: Tuesday, August 04, 2009 10:18 PM

To: ntms-hsmm@yahoogrou ps.com

Subject: Re: [ntms-hsmm] Trying to understand HSMM

Woops wrong Dave.

This Dave,

We have a HSMM Seminar in Lucas on August 22. Did you see the announcement?

Kip

On Tue, 2009-08-04 at 21:37 +0000, Dave wrote:

> I recently got an email about HSMM. I read a few articles and searched the net here and there. I see that you need a ext. antenna, wifi router and a microphone. One of the articles said something about a microwave radio which could be had cheaply for 60-80 dollars. I havent been able to find out more about what all equipment is needed. I still not getting how it works I guess. I have antenna restrictions but I have most of the equipment I think. Point me in the right direction please !

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> Dave

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> Yahoo! Groups Links

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Kipton Moravec AE5IB .- . ... -...

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Four Way Test

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1444. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-05 05:52:52 UTC
From: John Champa
Topic: 1432 Message: 1444

You got it! Thanks to Glenn for coming to the rescue. He is much better at explaining such things than that Champa guy you mentioned, otherwise that old 2004 article would have been sufficient, right? Guess we have learned a lot
in the meantime (HI).

The follow-up CQ VHF article will describe a simple xtal mod that changes the channel
11 (outside the Ham Band) frequency to between channels 2-3, thus rendering the
signals undetectable by Part 15 stations, or anything other than a spectrum analyzer.

BTW, one of my favorite suggestions for first antennas would be for a pair of MFJ-1800s.
They are simple, inexpensive, and work well, at least for initial testing getting started.

Good luck, thanks again, and please don't be a stranger here.

73,
John K8OCL

On Tue, Aug 4, 2009 at 10:46 PM, Dave <baldcowboy@...> wrote:

>
>
> OK OK ! I think I finally got the missing part ! You have to FLASH the
> firmware on the router so it basically becomes the XTMR for Ham Band.I some
> how missed that part in the articles. Once flash its a qrp microwave 2.4 ghz
> wifi xtmr with your call sign attached as the SSID ??
>
> THANKS !!
>
>
> --- In ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>, "Dave"
> <baldcowboy@...> wrote:
> >
> > Actually I was reading an article called HSMM Radio Equipment from 2004
> by some guy name John Champa, K8OCL. If I have to read a book to understand
> it though, its not something I am interested in.
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> > --- In ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>, John
> Champa <radioskyart@> wrote:
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> > > *Excellent questions! However, for me at least (maybe somebody else?)
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> > > is a lot*
> > > *to put in a posting that would not bore all the old HSMM radio hands
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> > > (HI)*
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> > > *Have you read the ARRL VHF Digital Handbook by Steve Ford, WB8AMY? *
> > > *That would be a great start. There is an entire chapter there on HSMM
> > > radio.*
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> > > *73,*
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> > > On Tue, Aug 4, 2009 at 9:37 PM, Dave <baldcowboy@> wrote:
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> > > Nisciune nasce imparate

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> > > "When you can measure what you are speaking about, and express it in
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> > > [Non-text portions of this message have been removed]
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numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1445. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-05 06:07:23 UTC
From: John Champa
Topic: 1432 Message: 1445

PS - One minor disagreement, respectfully, with Robert. There is nothing
that
prohibits you from using the Part 15 channels with bigger antennas and more
power,
as long as you are a licenced Radio Amateur. Just as long as your channel
center
frequency is at or below about the center frequency of Channel 6, you are
within the 2.4 GHz Ham Band. There are no actual Part 97 "channels" for
802.11
aside from general band plans and other such gentleman's agreements.

Having written that, of course, it would not be very neighborly to knock
your local
HS or PD off the are with your more powerful signal! An unlikely event, in
any
case, but that is why we always recommend an RF area survey as a first step.

On Wed, Aug 5, 2009 at 5:52 AM, John Champa <radioskyart@...> wrote:

> You got it! Thanks to Glenn for coming to the rescue. He is much better
> at explaining such things than that Champa guy you mentioned, otherwise
> that old 2004 article would have been sufficient, right? Guess we have
> learned a lot
> in the meantime (HI).
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> The follow-up CQ VHF article will describe a simple xtal mod that changes
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> 11 (outside the Ham Band) frequency to between channels 2-3, thus
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> signals undetectable by Part 15 stations, or anything other than a spectrum
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> BTW, one of my favorite suggestions for first antennas would be for a pair
> of MFJ-1800s.
> They are simple, inexpensive, and work well, at least for initial testing
> getting started.
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> Good luck, thanks again, and please don't be a stranger here.
>
> 73,
> John K8OCL
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> On Tue, Aug 4, 2009 at 10:46 PM, Dave <baldcowboy@...> wrote:
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>> wifi xtmr with your call sign attached as the SSID ??
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>> --- In ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>, "Dave"
>> <baldcowboy@...> wrote:
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>> > Actually I was reading an article called HSMM Radio Equipment from 2004
>> by some guy name John Champa, K8OCL. If I have to read a book to understand
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>> > > *Have you read the ARRL VHF Digital Handbook by Steve Ford, WB8AMY? *
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"When you can measure what you are speaking about, and express it in
numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1446. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-05 12:40:32 UTC
From: Kipton Moravec
Topic: 1432 Message: 1446

I have made a spreadsheet that will be made into a slide with the data about the crystal change.

You can download it from http://www.kdream.com/HSMM/ALTFrequency.xls (case sensitive)

The whole screen is the amateur radio spectrum allocation in that frequency area.

The top section is the standard off the shelf WiFi. You can see that Channels 1-6 fit into the spectrum.

The second section is replacing the 20 MHz crystal on the transmitter with a 19.6608 MHz crystal (the next lowest that is readily available and costs under $1) With it we can use channels 7-11 in our band. Other countries allow the unit to have channels 12-14.
http://www.moonblinkwifi.com/2point4freq.cfm

So maybe with a software change we can add those channels also and with the crystal change still be in the Amateur Radio Spectrum.

With the crystal changes, the units can not be detected by unmodified units.

The third section is the ARRL Band plan. Because we are spread spectrum, we look like background noise to the narrow band signals.

Kip

On Wed, 2009-08-05 at 05:52 +0000, John Champa wrote:
> You got it! Thanks to Glenn for coming to the rescue. He is much better
> at explaining such things than that Champa guy you mentioned, otherwise
> that old 2004 article would have been sufficient, right? Guess we have
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> of MFJ-1800s.
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> getting started.

>
> Good luck, thanks again, and please don't be a stranger here.
>
> 73,
> John K8OCL
>
> On Tue, Aug 4, 2009 at 10:46 PM, Dave <baldcowboy@...> wrote:
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> >
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> > OK OK ! I think I finally got the missing part ! You have to FLASH the
> > firmware on the router so it basically becomes the XTMR for Ham Band.I some
> > how missed that part in the articles. Once flash its a qrp microwave 2.4 ghz
> > wifi xtmr with your call sign attached as the SSID ??
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> > THANKS !!
> >
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> > --- In ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>, "Dave"
> > <baldcowboy@...> wrote:
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> > > Actually I was reading an article called HSMM Radio Equipment from 2004
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> > > --- In ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>, John
> > Champa <radioskyart@> wrote:
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> > > > >
> > > > [Non-text portions of this message have been removed]
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Kipton Moravec AE5IB .- . ... -...
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Four Way Test
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Is it Fair to all concerned?

Will it build Goodwill and Better Friendships?
Will it be Beneficial to all concerned?
- Herbert J Taylor (1932)

1447. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-05 18:05:01 UTC
From: John Champa
Topic: 1432 Message: 1447

Kip,

Super! That helps a great deal. OK to publish this with your name on it?

Thanks,
John K8OCL

On Wed, Aug 5, 2009 at 12:40 PM, Kipton Moravec <kip@...> wrote:

>
>
> I have made a spreadsheet that will be made into a slide with the data
> about the crystal change.
>
> You can download it from http://www.kdream.com/HSMM/ALTFrequency.xls
> (case sensitive)
>
> The whole screen is the amateur radio spectrum allocation in that
> frequency area.
>
> The top section is the standard off the shelf WiFi. You can see that
> Channels 1-6 fit into the spectrum.
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> The second section is replacing the 20 MHz crystal on the transmitter
> with a 19.6608 MHz crystal (the next lowest that is readily available
> and costs under $1) With it we can use channels 7-11 in our band. Other
> countries allow the unit to have channels 12-14.
> http://www.moonblinkwifi.com/2point4freq.cfm
>
> So maybe with a software change we can add those channels also and with
> the crystal change still be in the Amateur Radio Spectrum.
>
> With the crystal changes, the units can not be detected by unmodified
> units.
>
> The third section is the ARRL Band plan. Because we are spread spectrum,
> we look like background noise to the narrow band signals.
>
> Kip
>
> On Wed, 2009-08-05 at 05:52 +0000, John Champa wrote:
> > You got it! Thanks to Glenn for coming to the rescue. He is much better
> > at explaining such things than that Champa guy you mentioned, otherwise
> > that old 2004 article would have been sufficient, right? Guess we have
> > learned a lot
> > in the meantime (HI).

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> > The follow-up CQ VHF article will describe a simple xtal mod that changes
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[Non-text portions of this message have been removed]

1448. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-05 20:54:02 UTC
From: Kipton Moravec
Topic: 1432 Message: 1448

Sure credit: Kipton Moravec AE5IB

On Wed, 2009-08-05 at 18:05 +0000, John Champa wrote:
> Kip,
>
> Super! That helps a great deal. OK to publish this with your name on it?
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> Thanks,
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> > Kipton Moravec AE5IB .- . ... -...
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1449. Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-06 13:53:15 UTC
From: rddunnin@rockwellcollins.com
Topic: 1432 Message: 1449

The missing piece is still the client cards. It is all fine and good to modify a WRT-54G to do all this but having to drag another 54G around with your laptop to play is a pest.

This looks like a great way to create a WAN but the solution for the "last mile" is either CAT-5e or a Part 15 wireless LAN. Is anyone doing any work on getting PCMCIA or USB clients that will work on modified HSSM wireless routers? That would get us entirely out of the Part 15 world.

[Non-text portions of this message have been removed]

1450. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-06 14:17:44 UTC
From: Kipton Moravec
Topic: 1432 Message: 1450

It depends on what you are doing and how you are doing it.

With DD-WRT the nodes were the backbone and you could also connect with your unmodified WiFi card.

The problem was configuration. It is a pain.

But that is how we have been doing it. And it works.

Now we are looking at what is being done with the Austin ARES-MESH and it is much easier to configure, it configures itself within 5 seconds of power-up.

This uses a different protocol OLSR. Designed to create a mesh network.

It is available in Linux. And they are working on windows drivers for some cards. Go to www.OLSR.org to see what they are doing.

I do not see it as such a pain. I am more interested in infrastructure. Once you get a signal to a building, you can use a regular unmodified wireless router to spread the signal to everybody else that needs it.

If I have one in my car I do not have to carry it. Just have it hooked up. Then I can hook it up with a CAT-5 cable, or have a wireless router in the car to reach my laptop wherever I am within range.

I do not think this will have 100% coverage anywhere.

Kip

On Thu, 2009-08-06 at 08:53 -0500, rddunnin@... wrote:
> The missing piece is still the client cards. It is all fine and good to
> modify a WRT-54G to do all this but having to drag another 54G around with
> your laptop to play is a pest.
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> This looks like a great way to create a WAN but the solution for the "last
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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Kipton Moravec AE5IB .- . ... -...
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1451. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-06 19:14:30 UTC
From: Glenn Currie
Topic: 1432 Message: 1451

The mix of part-97 and part-15 networks can work well, as Kip has pointed out. If we wish to help a served group / agency, we use part-97 gadgets like HSMM-MESH (new name for legal reasons), then we can break it out to normal Part-15 access points for general use.

This could give folks like the Red Cross Internet access, for example, in some place they needed it. To them they see a familiar Access Point, and how the Internet link got there is hidden to them. They don't need to know a thing about our mesh.

You really have to take a look at all the different ways networks could be set up and use what works for a particular situation. There are many, many useful variations on this theme.

-Glenn

--- On Thu, 8/6/09, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: Re: [ntms-hsmm] Re: Trying to understand HSMM
To: ntms-hsmm@yahoogroups.com
Date: Thursday, August 6, 2009, 9:17 AM

It depends on what you are doing and how you are doing it.

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your unmodified WiFi card.

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up. Then I can hook it up with a CAT-5 cable, or have a wireless router

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Kip

On Thu, 2009-08-06 at 08:53 -0500, rddunnin@rockwellco llins.com wrote:

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> [Non-text portions of this message have been removed]

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Kipton Moravec AE5IB .- . ... -...

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[Non-text portions of this message have been removed]

1452. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-06 21:44:15 UTC
From: Benjamin Jackson
Topic: 1432 Message: 1452

In doing this how does one ensure that 3rd party traffic rules are observed?

-- Sent from my Palm Prē
Glenn Currie wrote:

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pointed out. If we wish to help a served group / agency, we use

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-Glenn

--- On Thu, 8/6/09, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@kdream.com>

Subject: Re: [ntms-hsmm] Re: Trying to understand HSMM

To: ntms-hsmm@yahoogroups.com

Date: Thursday, August 6, 2009, 9:17 AM

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> wireless routers? That would get us entirely out of the Part 15 world..
>
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>
> [Non-text portions of this message have been removed]
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> ---------- --------- --------- ------

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> Yahoo! Groups Links

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Kipton Moravec AE5IB .- . ... -...

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Four Way Test

Is it the Truth?

Is it Fair to all concerned?

Will it build Goodwill and Better Friendships?

Will it be Beneficial to all concerned?

- Herbert J Taylor (1932)

[Non-text portions of this message have been removed]

Yahoo! Groups Links

<*> To visit your group on the web, go to:

http://groups.yahoo.com/group/ntms-hsmm/

<*> Your email settings:

Individual Email | Traditional

<*> To change settings online go to:

http://groups.yahoo.com/group/ntms-hsmm/join

(Yahoo! ID required)

<*> To change settings via email:

mailto:ntms-hsmm-digest@yahoogroups.com

mailto:ntms-hsmm-fullfeatured@yahoogroups.com

<*> To unsubscribe from this group, send an email to:

ntms-hsmm-unsubscribe@yahoogroups.com

<*> Your use of Yahoo! Groups is subject to:

http://docs.yahoo.com/info/terms/

[Non-text portions of this message have been removed]

1453. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-06 23:06:08 UTC
From: Glenn Currie
Topic: 1432 Message: 1453

Links should be monitored by the control operator.

Rather simple, to tremendously sophisticated software
exists to monitor computer networks and has existed for
decades. It is currently in use 24 hours a day, 7 days a week,
365 day a year. This email exchange we are having is likely
monitored by multiple such programs.

Some quite good software such as WireShark
is free, and will allow you to monitor and log every bit of every byte
of every packet that goes over the network. You can have it watch
for IP addresses and particular bit patterns, among other things.
Different types of packets may be color coded as the user desires.
Please refer to the WireShark manual for details.

Wireless routers are "routers" and can strictly control what address
ranges are allowed over the network. You can block specific addresses
if you wish. They must be configured by the user in order to do effective
routing and filtering. Leaving such a device with the default settings may
not be optimum for security purposes.

It is common for network administrators to spend a great deal of time
configuring and securing their networks. This is an ongoing task, not
something just done once and then not checked again.

Many aspects of HSMM will invite consideration of updating current rules
that were written before the technology ever existed.

The only way, as always, to be absolutely sure there is no
violation of third party traffic rules or other regulations,
is to turn off your radio, and stay off the air.

-Glenn

--- On Thu, 8/6/09, Benjamin Jackson <bbj@...> wrote:

From: Benjamin Jackson <bbj@...>
Subject: Re: [ntms-hsmm] Re: Trying to understand HSMM
To: "ntms-hsmm@yahoogroups.com" <ntms-hsmm@yahoogroups.com>
Date: Thursday, August 6, 2009, 4:44 PM

In doing this how does one ensure that 3rd party traffic rules are observed?

-- Sent from my Palm Prē

Glenn Currie wrote:

The mix of part-97 and part-15 networks can work well, as Kip has

pointed out. If we wish to help a served group / agency, we use part-97 gadgets like HSMM-MESH (new name for legal reasons), then we can break it out to normal Part-15 access points for general use. This could give folks like the Red Cross Internet access, for example, in some place they needed it. To them they see a familiar Access Point, and how the Internet link got there is hidden to them. They don't need to know a thing about our mesh.

You really have to take a look at all the different ways networks could be set up and use what works for a particular situation. There are many, many useful variations on this theme.

-Glenn

--- On Thu, 8/6/09, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>

Subject: Re: [ntms-hsmm] Re: Trying to understand HSMM

To: ntms-hsmm@yahoogrou ps.com

Date: Thursday, August 6, 2009, 9:17 AM

It depends on what you are doing and how you are doing it.

With DD-WRT the nodes were the backbone and you could also connect with your unmodified WiFi card.

The problem was configuration. It is a pain.

But that is how we have been doing it. And it works.

Now we are looking at what is being done with the Austin ARES-MESH and it is much easier to configure, it configures itself within 5 seconds of power-up.

This uses a different protocol OLSR. Designed to create a mesh network.

It is available in Linux. And they are working on windows drivers for some cards. Go to www.OLSR.org to see what they are doing.

I do not see it as such a pain. I am more interested in infrastructure.

Once you get a signal to a building, you can use a regular unmodified

wireless router to spread the signal to everybody else that needs it.

If I have one in my car I do not have to carry it. Just have it hooked

up. Then I can hook it up with a CAT-5 cable, or have a wireless router

in the car to reach my laptop wherever I am within range.

I do not think this will have 100% coverage anywhere.

Kip

On Thu, 2009-08-06 at 08:53 -0500, rddunnin@rockwellco llins.com wrote:

> The missing piece is still the client cards. It is all fine and good to

> modify a WRT-54G to do all this but having to drag another 54G around with

> your laptop to play is a pest.

>

> This looks like a great way to create a WAN but the solution for the "last

> mile" is either CAT-5e or a Part 15 wireless LAN. Is anyone doing any

> work on getting PCMCIA or USB clients that will work on modified HSSM

> wireless routers? That would get us entirely out of the Part 15 world...

>

>

>

> [Non-text portions of this message have been removed]

>

>

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> ---------- --------- --------- ------

>

> Yahoo! Groups Links

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>

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Kipton Moravec AE5IB .- . ... -...

========== ========= ========= ========= =======

Four Way Test

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[Non-text portions of this message have been removed]

---------- --------- --------- ------

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<*> Your email settings:

Individual Email | Traditional

<*> To change settings online go to:

http://groups. yahoo.com/ group/ntms- hsmm/join

(Yahoo! ID required)

<*> To change settings via email:

mailto:ntms-hsmm-digest@ yahoogroups. com

mailto:ntms-hsmm-fullfeatu red@yahoogroups. com

<*> To unsubscribe from this group, send an email to:

ntms-hsmm-unsubscri be@yahoogroups. com

<*> Your use of Yahoo! Groups is subject to:

http://docs. yahoo.com/ info/terms/

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1454. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-07 03:16:43 UTC
From: Ben Jackson
Topic: 1432 Message: 1454

Glenn Currie wrote:
> Links should be monitored by the control operator.

Which is easier said then done and does not prevent anything from violating the rules.

> Rather simple, to tremendously sophisticated software
> exists to monitor computer networks and has existed for
> decades. It is currently in use 24 hours a day, 7 days a week,
> 365 day a year. This email exchange we are having is likely
> monitored by multiple such programs.

Yup, and as I have a job in Information Security I interact with them regularly. Unfortunately, none of them can achieve what Part 97 requires. (Nothing "naughty", no encryption, etc). Wireshark/tcpdump/snort/etc are purely passive monitors and while they show when someone might be violating Part 97, it does nothing about it. Wireshark's live display will also be quickly overwhelmed if there are more then a few users using the connection.

> It is common for network administrators to spend a great deal of time
> configuring and securing their networks. This is an ongoing task, not
> something just done once and then not checked again.

Having a secure connection and having something that is Part 97 compliant are two different things. Part 97 severely hamstrings certain security measures that are standard in most networks. What needs to be done is active traffic content monitoring, which does exist in some forms, but is far from bulletproof.

> Many aspects of HSMM will invite consideration of updating current rules
> that were written before the technology ever existed.

Unfortunately, at Dayton, I got the impression from the FCC that no such reconsidering is forthcoming. They feel that current rules work fine.

> The only way, as always, to be absolutely sure there is no
> violation of third party traffic rules or other regulations,
> is to turn off your radio, and stay off the air.

Or, just not provide access to 3rd parties, but that just gets us back to square one.

--
Ben Jackson - N1WBV - New Bedford, MA
bbj <at> innismir.net - http://www.innismir.net/

1455. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-07 05:44:51 UTC
From: Glenn Currie
Topic: 1432 Message: 1455

I believe hams should try to go by the rules. That is what we agree to do when we get our ticket, and get some pretty generous privileges.

I am not a lawyer, I am not empowered to enforce the rules, so my opinion has zero (0) legal standing.

At some point new rules for new communications modes makes sense. The legal system does not always make sense and is always way behind technology.

I try to go by the rules and encourage others to do the same. Beyond offering a few suggestions on how an operator might attempt to use some technical means to try to comply with the rules, my least favorite part of ham radio is discussing hypothetical legal considerations. Some seem to enjoy it a lot, as there are many such discussions.

The FCC has a lot of spectrum to sell for wireless gadgets and is constantly under heavy political pressure. I don't think hams experimenting with HSMM is really of much concern or interest to them.

Check the enforcements section of QST to see what the FCC cares about enough to take action.

I have technical interests and an interest in helping with emergency communications. If faced with an emergency where I might be of some help, I will make a decision I can live with, and hope any that might stand in judgment of me, will do the same.

Others can discuss the rules for as long as they like.

-Glenn

--- On Thu, 8/6/09, Ben Jackson <bbj@...> wrote:

From: Ben Jackson <bbj@...>
Subject: Re: [ntms-hsmm] Re: Trying to understand HSMM
To: ntms-hsmm@yahoogroups.com
Date: Thursday, August 6, 2009, 10:16 PM

Glenn Currie wrote:

> Links should be monitored by the control operator.

Which is easier said then done and does not prevent anything from

violating the rules.

> Rather simple, to tremendously sophisticated software
> exists to monitor computer networks and has existed for
> decades. It is currently in use 24 hours a day, 7 days a week,
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> violation of third party traffic rules or other regulations,
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Or, just not provide access to 3rd parties, but that just gets us back to square one.

--

Ben Jackson - N1WBV - New Bedford, MA

bbj <at> innismir.net - http://www.innismir .net/

[Non-text portions of this message have been removed]

1456. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-07 07:40:42 UTC
From: kevin asato
Topic: 1432 Message: 1456

Amen!
In the absence of exact FCC legislation to govern what we can and cannot do on the airwaves, we are allowed to use good engineering judgement and good amateur practice - common sense. This is our grant to homebrew and try out new equipment and modes on the amateur bands to determine if they are viable under varying operating bands and conditions (weather, propagation, public service/emergency).

73,
kevin
kc6pob

--- On Thu, 8/6/09, Glenn Currie <kd5mfw_7@...> wrote:

From: Glenn Currie <kd5mfw_7@...>
Subject: Re: [ntms-hsmm] Re: Trying to understand HSMM
To: ntms-hsmm@yahoogroups.com
Date: Thursday, August 6, 2009, 10:44 PM

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agree to do when we get our ticket, and get some pretty generous

privileges.

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radio is discussing hypothetical legal considerations. Some seem to

enjoy it a lot, as there are many such discussions.

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constantly under heavy political pressure. I don't think hams experimenting

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enough to take action.

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communications. If faced with an emergency where I might be of some

help, I will make a decision I can live with, and hope any that might stand

in judgment of me, will do the same.

Others can discuss the rules for as long as they like.

-Glenn

```
<!--
#yiv39874273 #ygrp-mkp{
border:1px solid #d8d8d8;font-family:Arial;margin:14px 0px;padding:0px 14px;}
#yiv39874273 #ygrp-mkp hr{
border:1px solid #d8d8d8;}
#yiv39874273 #ygrp-mkp #hd{
color:#628c2a;font-size:85%;font-weight:bold;line-height:122%;margin:10px 0px;}
#yiv39874273 #ygrp-mkp #ads{
margin-bottom:10px;}
#yiv39874273 #ygrp-mkp .ad{
padding:0 0;}
#yiv39874273 #ygrp-mkp .ad a{
color:#0000ff;text-decoration:none;}
-->

<!--
#yiv39874273 #ygrp-sponsor #ygrp-lc{
font-family:Arial;}
#yiv39874273 #ygrp-sponsor #ygrp-lc #hd{
margin:10px 0px;font-weight:bold;font-size:78%;line-height:122%;}
#yiv39874273 #ygrp-sponsor #ygrp-lc .ad{
margin-bottom:10px;padding:0 0;}
-->

<!--
#yiv39874273 #ygrp-mlmsg {font-size:13px;font-family:arial, helvetica, clean, sans-serif;}
#yiv39874273 #ygrp-mlmsg table {font-size:inherit;font:100%;}
#yiv39874273 #ygrp-mlmsg select, #yiv39874273 input, #yiv39874273 textarea {font:99%
arial, helvetica, clean, sans-serif;}
#yiv39874273 #ygrp-mlmsg pre, #yiv39874273 code {font:115% monospace;}
#yiv39874273 #ygrp-mlmsg * {line-height:1.22em;}
#yiv39874273 #ygrp-text{
font-family:Georgia;
}
#yiv39874273 #ygrp-text p{
margin:0 0 1em 0;}
```

```
#yiv39874273 dd.last p a {
font-family:Verdana;font-weight:bold;}

#yiv39874273 #ygrp-vitnav{
padding-top:10px;font-family:Verdana;font-size:77%;margin:0;}
#yiv39874273 #ygrp-vitnav a{
padding:0 1px;}
#yiv39874273 #ygrp-mlmsg #logo{
padding-bottom:10px;}

#yiv39874273 #ygrp-reco {
margin-bottom:20px;padding:0px;}
#yiv39874273 #ygrp-reco #reco-head {
font-weight:bold;color:#ff7900;}

#yiv39874273 #reco-category{
font-size:77%;}
#yiv39874273 #reco-desc{
font-size:77%;}

#yiv39874273 #ygrp-vital a{
text-decoration:none;}

#yiv39874273 #ygrp-vital a:hover{
text-decoration:underline;}

#yiv39874273 #ygrp-sponsor #ov ul{
padding:0 0 0 8px;margin:0;}
#yiv39874273 #ygrp-sponsor #ov li{
list-style-type:square;padding:6px 0;font-size:77%;}
#yiv39874273 #ygrp-sponsor #ov li a{
text-decoration:none;font-size:130%;}
#yiv39874273 #ygrp-sponsor #nc{
background-color:#eee;margin-bottom:20px;padding:0 8px;}
#yiv39874273 #ygrp-sponsor .ad{
padding:8px 0;}
#yiv39874273 #ygrp-sponsor .ad #hd1{
font-family:Arial;font-weight:bold;color:#628c2a;font-size:100%;line-height:122%;}
#yiv39874273 #ygrp-sponsor .ad a{
text-decoration:none;}
#yiv39874273 #ygrp-sponsor .ad a:hover{
text-decoration:underline;}
#yiv39874273 #ygrp-sponsor .ad p{
margin:0;font-weight:normal;color:#000000;}
#yiv39874273 o{font-size:0;}
#yiv39874273 .MsoNormal{
margin:0 0 0 0;}
#yiv39874273 #ygrp-text tt{
font-size:120%;}
#yiv39874273 blockquote{margin:0 0 0 4px;}
#yiv39874273 .replbq{margin:4;}
```

```
#yiv39874273 dd.last p span {
margin-right:10px;font-family:Verdana;font-weight:bold;}

#yiv39874273 dd.last p span.yshortcuts {
margin-right:0;}

#yiv39874273 div.photo-title a,
#yiv39874273 div.photo-title a:active,
#yiv39874273 div.photo-title a:hover,
#yiv39874273 div.photo-title a:visited {
text-decoration:none;}

#yiv39874273 div.file-title a,
#yiv39874273 div.file-title a:active,
#yiv39874273 div.file-title a:hover,
#yiv39874273 div.file-title a:visited {
text-decoration:none;}

#yiv39874273 #ygrp-msg p#attach-count {
clear:both;padding:15px 0 3px 0;overflow:hidden;}

#yiv39874273 #ygrp-msg p#attach-count span {
color:#1E66AE;font-weight:bold;}

#yiv39874273 div#ygrp-mlmsg #ygrp-msg p a span.yshortcuts {
font-family:Verdana;font-size:10px;font-weight:normal;}

#yiv39874273 #ygrp-msg p a {
font-family:Verdana;}

#yiv39874273 #ygrp-mlmsg a {
color:#1E66AE;}

#yiv39874273 div.attach-table div div a {
text-decoration:none;}

#yiv39874273 div.attach-table {
width:400px;}

-->
```

[Non-text portions of this message have been removed]

1457. Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-07 14:14:49 UTC
From: rddunnin@rockwellcollins.com
Topic: 1432 Message: 1457

So you use a HSMM-MESH node running OLSR (great MANET protocol, btw) as the trunk and Part 15 devices and wireline devices for access. Technically speaking, this is a very satisfying and stimulating approach to achieving the original goals of the HSMM initiatives.

Regulatory Thoughts:

Having served as an elected official who worked day to day with a governmental bureaucracy, I would advise caution when evaluating arguments for not worrying about Part 97 considerations and Third Party rules. To be frank, in my judgement the arguments posted in this thread were neither convincing nor likely to stand if challenged. The two main arguments appear to be based on Civic Altruism and Official Neglect.

Appeals to altruistic motives can keep one warm at night and make one popular at the EOC but do not stand when some bureaucrat or agency takes umbrage. [Only government officials seem to get away with being judged by their motives and not by their deeds.] One only has to understand the regulatory mind to find out that there is no right and wrong, only compliance or violation of the body of regulation. To the enforcement bureaucracy pure motives are immaterial. Only venal or corrupt motives are useful when their presence can be used to enhance the success of prosecution (criminal jurisdiction) or assessment of apparent liability (administrative jurisdiction).

Next, the lack of enforcement activity or focus by the FCC ("Official Neglect") cannot be taken as tacit approval. It sounds to me like there needs to be some petitions to the FCC and a few NPRM cycles to try to fix any defects exposed by the demands of Amateur wireless data communication. I think this terribly thin ice upon which to build an edifice of one's treasures and efforts. FDR is the only historical figure I remember in this country who ever got away with acting contrary to law and then trusting that the constitution and law would eventually catch up.

Disclaimer

The above is purely practical observation of one citizen to others and does not constitute legal advice. Let me say clearly that I have no love for the constant expansion of federal power and expend no small amount of time and treasure to restrain it. That said, this is the environment in which we currently operate and which, in applying for licensure, we gave our contractual approval to support. Though I think the whole Communications Act of 1934 approach is far from the right way to provide communication sanity and civility in a free society, it is the current framework under which we must operate unless we are prepared to mount a supreme court challenge to NCA-34.

RD - KC5QHH

[Non-text portions of this message have been removed]

1458. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-07 14:39:43 UTC
From: Gregg Wonderly
Topic: 1432 Message: 1458

rddunnin@... wrote:
> The missing piece is still the client cards. It is all fine and good to
> modify a WRT-54G to do all this but having to drag another 54G around with
> your laptop to play is a pest.
>
> This looks like a great way to create a WAN but the solution for the "last
> mile" is either CAT-5e or a Part 15 wireless LAN. Is anyone doing any
> work on getting PCMCIA or USB clients that will work on modified HSSM
> wireless routers? That would get us entirely out of the Part 15 world.

The antenna systems on those devices are not conducive to long distance transmission and the emission levels, for safety reasons, are also part of the issue. What you need to do, is use a part 15 router connected via ethernet to a part 97 router and use part 15 cards to talk to the part 15 router.

Gregg Wonderly

1459. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-07 14:45:20 UTC
From: Gregg Wonderly
Topic: 1432 Message: 1459

Benjamin Jackson wrote:
> In doing this how does one ensure that 3rd party traffic rules are observed?

Don't use open networks on part 15, plain and simple!

Gregg Wonderly
W5GGW

1460. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-07 14:47:16 UTC
From: Gregg Wonderly
Topic: 1432 Message: 1460

Ben Jackson wrote:
> Glenn Currie wrote:
>> Links should be monitored by the control operator.
>
> Which is easier said then done and does not prevent anything from
> violating the rules.
>
>> Rather simple, to tremendously sophisticated software
>> exists to monitor computer networks and has existed for
>> decades. It is currently in use 24 hours a day, 7 days a week,
>> 365 day a year. This email exchange we are having is likely
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>
> Yup, and as I have a job in Information Security I interact with them
> regularly. Unfortunately, none of them can achieve what Part 97
> requires. (Nothing "naughty", no encryption, etc).
> Wireshark/tcpdump/snort/etc are purely passive monitors and while they
> show when someone might be violating Part 97, it does nothing about it.
> Wireshark's live display will also be quickly overwhelmed if there are
> more then a few users using the connection.
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>> It is common for network administrators to spend a great deal of time
>> configuring and securing their networks. This is an ongoing task, not
>> something just done once and then not checked again.
>
> Having a secure connection and having something that is Part 97
> compliant are two different things. Part 97 severely hamstrings certain
> security measures that are standard in most networks. What needs to be
> done is active traffic content monitoring, which does exist in some
> forms, but is far from bulletproof.

Part 97 says that you must document encoding. It does not say "no encoding".

Gregg Wonderly
W5GGW

1461. HSMM-MESH Contact from Corpus Christi

Yahoo group: DAWG-HSMM
Date: 2009-08-07 20:21:11 UTC
From: John Clements
Topic: 1432 Message: 1461

Glenn,

Many thanks for the most interesting talk at the Dallas (Plano) HamFest. I live in Corpus Christi and have been coming to Ham Comm since before the Arlington site. Most interested in trying to stir up some tech interest around here. There is an especially strong interest in public service and emergency communications.

I do have S band ham radio (Linysys router) that I bought at Goodwill on the way, just my luck it is a version 5.
Perhaps I can do a presentation for one or more of our two ham clubs. I'm really hampered by living far away though. Are there any presentations I could shamelessly copy from? Attached is my 'brain dump' this week, really short on details and graphics. I see the Lynksys routers are $25 to $60 and the antenna about $30, cables tripod, Ethernet power injectors, etc. could bring up a node cost to say $150? For a demo, I really need two version 1-4 routers, I will look around, but our Goodwill, etc. stores are mostly clothes.

I have seen an email that says the recent CQ has an article on HSMM-MESH, sadly my sub has expired. I did look on the CQ web site and did not see it in the most recent posting (which was August issue).

Know you guys are having a great hamfest, wish I didn't have a conflict this weekend and could be there.

Thanks for all the development work you guys have done on HSMM-MESH

John Clements
WB5SAL
Corpus Christi

[Non-text portions of this message have been removed]

1462. Re: [ntms-hsmm] HSMM-MESH Contact from Corpus Christi

Yahoo group: DAWG-HSMM
Date: 2009-08-07 20:58:47 UTC
From: Glenn Currie
Topic: 1432 Message: 1462

Thanks,

I will get you some info you can use for presentation.

I have had some help getting a vendor table at the Austin Summerfest
this weekend. I will be there as much as I can and help with mesh firmware loads
and answer questions.

-Glenn

--- On Fri, 8/7/09, John Clements <jclements@grandecom.net> wrote:

From: John Clements <jclements@...>
Subject: [ntms-hsmm] HSMM-MESH Contact from Corpus Christi
To: ntms-hsmm@...m
Date: Friday, August 7, 2009, 3:21 PM

Glenn,

Many thanks for the most interesting talk at the Dallas (Plano)

HamFest. I live in Corpus Christi and have been coming to Ham Comm

since before the Arlington site. Most interested in trying to stir up

some tech interest around here. There is an especially strong interest

in public service and emergency communications.

I do have S band ham radio (Linysys router) that I bought at Goodwill on

the way, just my luck it is a version 5.

Perhaps I can do a presentation for one or more of our two ham clubs.

I'm really hampered by living far away though. Are there any

presentations I could shamelessly copy from? Attached is my 'brain

dump' this week, really short on details and graphics. I see the

Lynksys routers are $25 to $60 and the antenna about $30, cables tripod,

Ethernet power injectors, etc. could bring up a node cost to say $150?

For a demo, I really need two version 1-4 routers, I will look around,

but our Goodwill, etc. stores are mostly clothes.

I have seen an email that says the recent CQ has an article on

HSMM-MESH, sadly my sub has expired. I did look on the CQ web site and did not see it in the most recent posting (which was August issue).

Know you guys are having a great hamfest, wish I didn't have a conflict this weekend and could be there.

Thanks for all the development work you guys have done on HSMM-MESH

John Clements

WB5SAL

Corpus Christi

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1463. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-08 05:03:08 UTC
From: John Champa
Topic: 1432 Message: 1463

Gregg is correct. The method suggested by the old HSMM WG for "documenting" is a posting on a special page on the ARRL web site explicitly intended for such encoding scheme storage, or in this case "publication" or "documenting".

However, in practice, any public web site accessible by Radio Amateurs is just fine.

This, of course, also includes encoding schemes for the purpose of encryption. *

Just as in the case of repeater owners, you are NOT required to also post your
encryption key. That would defeat the purpose of the encryption. However, the WG
did recommend that the encryption method AND THE KEY (e.g., WEP using HSMM-) be recorded in the Radio Amateur's official station log book.

Of course, those logbook are not required any longer either (HI). It was simply a
recommendation by the WG to comply with the spirit of "best practices".

73,
John K8OCL

*The FCC stated to the ARRL attorney that Radio Amateurs my encrypt their HSMM
networks for the *protection of the network*. It was not considered by the FCC as an
attempt to "obscure the meaning" of the transmissions so thus it is not considered a violation
of the regulations for Radio Amateurs to encrypt their transmission for the purpose of
network security, e.g. HSMM-MESH networks using WEP, etc.

Caveat: ITU (the UN) regulations prohibit any encrypted transmission over international boundaries.
Of course, governments do this on a daily basis (HI). So this FCC approval applies to Radio Amateurs
only within FCC jurisdictional areas (US, possessions, etc.).

On Fri, Aug 7, 2009 at 2:47 PM, Gregg Wonderly <gergg@...> wrote:

>
>
> Ben Jackson wrote:
> > Glenn Currie wrote:

> >> Links should be monitored by the control operator.
> >
> > Which is easier said then done and does not prevent anything from
> > violating the rules.
> >
> >> Rather simple, to tremendously sophisticated software
> >> exists to monitor computer networks and has existed for
> >> decades. It is currently in use 24 hours a day, 7 days a week,
> >> 365 day a year. This email exchange we are having is likely
> >> monitored by multiple such programs.
> >
> > Yup, and as I have a job in Information Security I interact with them
> > regularly. Unfortunately, none of them can achieve what Part 97
> > requires. (Nothing "naughty", no encryption, etc).
> > Wireshark/tcpdump/snort/etc are purely passive monitors and while they
> > show when someone might be violating Part 97, it does nothing about it.
> > Wireshark's live display will also be quickly overwhelmed if there are
> > more then a few users using the connection.
> >
> >> It is common for network administrators to spend a great deal of time
> >> configuring and securing their networks. This is an ongoing task, not
> >> something just done once and then not checked again.
> >
> > Having a secure connection and having something that is Part 97
> > compliant are two different things. Part 97 severely hamstrings certain
> > security measures that are standard in most networks. What needs to be
> > done is active traffic content monitoring, which does exist in some
> > forms, but is far from bulletproof.
>
> Part 97 says that you must document encoding. It does not say "no
> encoding".
>
> Gregg Wonderly
> W5GGW
>
>
>

--
Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in
numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1464. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-09 03:01:50 UTC
From: Glenn Currie
Topic: 1432 Message: 1464

We ended up having a vendor table for the HSMM SIG at Summerfest
courtesy of WA8EXE. Larry had attended Hamcom 2009 and sat in on
the HSMM presentations given by K8OCL and KD5MFW.

He contacted me about HSMM-MESH firmware and I emailed it to him.

He loaded the firmware on a couple of WRT54G routers and had mesh
links going, but had questions that could not be easily resolved via
email.

We decided to link up at Summer fest and having a vendor table with

power gave us a place to work. We resolved a number of issues and
seem to have turned up a bug in the version 3 firmware.

I was able to take several of my used Goodwill Computer store routers
and turn them into mesh nodes by loading the HSMM firmware during

Summerfest.

We had many people stop by the table and talk about the mesh system
and the crystal mod was especially of interest to many.

This went so well that I will attempt to go to some of the area swapfests,

like Belton and simply pay for a vendor table and do HSMM support.

I would plan to have a few signs and a laptop with large screen running
a HSMM overview slide show, and have a few single page handouts.
Other than that this would be a way of doing hands on field support

and with all the walk by traffic even those with limited interest would
be able to spread the word that there are hams actively modifying
consumer Wi-Fi gear for ham use.

Many thanks to all that stopped by to help and again to WA8EXE for

footing the bill for this first HSMM promo / field support effort.

I hope to get a few more people trained to down load mesh firmware
and be able to give a basic overview of our mesh work. If we can
get support reps in near the major pockets of interest, we can more

rapidly grow the mesh ranks and improve technical help.

-Glenn

[Non-text portions of this message have been removed]

1465. Re: [ntms-hsmm] Re: Trying to understand HSMM

Yahoo group: DAWG-HSMM
Date: 2009-08-09 07:46:21 UTC
From: John Champa
Topic: 1432 Message: 1465

Glenn,

That is wonderful news! Did you happen to take some photos that we can published in the *CQ VHF* HSMM Column? Always need good photos!

BTW, my XYL (wife) Karen is an excellent sign maker. And unlike some of my dear correspondents, she actually knows how to spell "HSMM" (HI).

Karen recently made a beautiful fund raising sign for my cigar club. We dutifully mounted it in our bi-sexual rest room. Sound strange? With the considerable amount of 807 (beer) drinking we frequently do, it gets considerable
attention at that location. Hey! Don't laugh. It works for AMSAT at Dayton (HI).

73,
John K8OCL

On Sun, Aug 9, 2009 at 3:01 AM, Glenn Currie <kd5mfw_7@...> wrote:

>
>
> We ended up having a vendor table for the HSMM SIG at Summerfest
> courtesy of WA8EXE. Larry had attended Hamcom 2009 and sat in on
> the HSMM presentations given by K8OCL and KD5MFW.
>
> He contacted me about HSMM-MESH firmware and I emailed it to him.
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> He loaded the firmware on a couple of WRT54G routers and had mesh
> links going, but had questions that could not be easily resolved via
> email.
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> We decided to link up at Summer fest and having a vendor table with
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> power gave us a place to work. We resolved a number of issues and
> seem to have turned up a bug in the version 3 firmware.
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> and turn them into mesh nodes by loading the HSMM firmware during
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> We had many people stop by the table and talk about the mesh system
> and the crystal mod was especially of interest to many.
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> like Belton and simply pay for a vendor table and do HSMM support.
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> a HSMM overview slide show, and have a few single page handouts.
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> be able to spread the word that there are hams actively modifying
> consumer Wi-Fi gear for ham use.
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> Many thanks to all that stopped by to help and again to WA8EXE for
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> footing the bill for this first HSMM promo / field support effort.
>
> I hope to get a few more people trained to down load mesh firmware
> and be able to give a basic overview of our mesh work. If we can
> get support reps in near the major pockets of interest, we can more
>
> rapidly grow the mesh ranks and improve technical help.
>
> -Glenn
>
>
> [Non-text portions of this message have been removed]
>
>
>

--
Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in
numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1467. Last Chance to sign-up for HSMM class

Yahoo group: DAWG-HSMM
Date: 2009-08-18 04:07:35 UTC
From: Kipton Moravec
Topic: 1467 Message: 1467

HSMM Class August 22, 2009

Amateur Radio operators in Austin have modified the OpenWRT code to make a WiFi Mesh network. The software is functional but needs improvements. We are also looking at a custom processor board for some additional computer hardware.

Session 1: 8:30 a.m. to 10:30 a.m. Overview of HSMM and the Austin software
Limit 30 people.

Requirements: Nothing needed.

This session will be a slide presentation of using off-the-shelf Linksys routers with custom software and better antennas. Example systems will be on display. We will talk about events where we have used them. Finally I will propose a HSMM network in Collin County, or the metroplex.

Session 2: 10:45 a.m. to 1:00 p.m. Loading and testing the Austin Code.

Limit 20 people.

Requirements: Bring a Linksys WRT54GL (v1.0 or 1.1) router and a computer (Windows or Linux with an Ethernet port.) Extension cord, Power Strip, an Ethernet Cable and if you have a HT bring it.

In this session we will take the compiled code and load it into the WRT54GL router. Then we will take the routers outside and show them automatically joining the mesh, and providing Internet access. If time permits we may do range testing.

Session 3: 2:30 p.m. – 5:00 p.m. Loading the development system and code
Limit 10 people.

Requirements: Bring a Linux computer, the development system is in Linux. No version of Windows will work. Also bring a power strip, and Ethernet Cable

In the session we will load the development environment and software to compile the Linux Operating system, OpenWRT code, OLSR (Mesh SW) and Austin Modifications. When completed you will have created the same binary file as you used in Session 2. This is often the first obstacle for people wanting to modify the software. The software needs more work, and we are looking for people to help.

Please signup by emailing kip@... with what sessions you want to attend. There is a limit to the number of people I can accommodate so please do not sign up if you will not show up.

The class will be at Gary Johnson’s Pool House, 299 Connor Lane. Lucas, TX. The sessions will start promptly. So be there early.

--

Kipton Moravec AE5IB .- . ... -...
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Four Way Test
Is it the Truth?
Is it Fair to all concerned?
Will it build Goodwill and Better Friendships?
Will it be Beneficial to all concerned?
- Herbert J Taylor (1932)

1468. Re: APPROVE -- wa6nut wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-08-22 01:06:30 UTC
From: Kilgore
Topic: 1468 Message: 1468

Yahoo! Groups Notification wrote:
> Hello,
>
> The following person would like to join the ntms-hsmm group:
> Email address: wa6nut <wa6nut@...>
>
> Comment from user:
> I've recently acquired two WRT-54GS routers, and would like to
> experiment with DD-WRT, NetMeeting (voice and video), MFJ-1800 yagi
> antennas, the LX1TB crystal mod and more.
>
>

1469. L-Com's APC

Yahoo group: DAWG-HSMM
Date: 2009-08-22 14:14:40 UTC
From: kb9mwr
Topic: 1469 Message: 1469

I just read the latest HSMM column in CQ-VHF. Very nice by-the-way.

I saw the note how ham spread spectrum APC is no longer a requirement for hams under the Part 97 Spread Spectrum Rules. The FCC considers APC for hams who often build their own equipment, including BDAs-"technologically impractical."

(As that ham rule had TDMA spread spectrum in mind and is referring to power control on a per packet basis.)

There seemed to be some question as to what L-Com's APC/AGC (automatic gain control) really is.

It's just circuit basically just automatically adjusts the amplifier's gain to provide a constant output power regardless of cable length.

Thought I'd share that. I have one of their 10 watt 900 MHz BDA's that has that type of APC.

1470. Netgear WGR614L ? does anyone have experience with this?

Yahoo group: DAWG-HSMM
Date: 2009-08-31 06:30:33 UTC
From: kc6pob
Topic: 1470 Message: 1470

Has anyone modded a Netgear WGR614L for hsmm use? I have seen them at Frys Electronics. The L suffix is significant as it is advertised as a Linux box versus the standard unit without the L. Interested in the unit but currently have little time to devote to development work as I am working on integrating cellular, LMR, and point to point microwave networks through my employer.

Processor (unknown) clocked at 240MHz, 4MB flash, 16MB RAM. 12VDC @1A and 4 10/100 switched ports.

73,
kevin
kc6pob

1471. Re: [ntms-hsmm] Netgear WGR614L ? does anyone have experience with this?

Yahoo group: DAWG-HSMM
Date: 2009-08-31 10:54:15 UTC
From: Kipton Moravec
Topic: 1470 Message: 1471

On Mon, 2009-08-31 at 06:30 +0000, kc6pob wrote:
> Has anyone modded a Netgear WGR614L for hsmm use? I have seen them at Frys Electronics. The L suffix is significant as it is advertised as a Linux box versus the standard unit without the L. Interested in the unit but currently have little time to devote to development work as I am working on integrating cellular, LMR, and point to point microwave networks through my employer.
>
> Processor (unknown) clocked at 240MHz, 4MB flash, 16MB RAM. 12VDC @1A and 4 10/100 switched ports.
>
> 73,
> kevin
> kc6pob

A couple of the people in Austin have them, but have not had too much
time to play with them. Or support them with the hsmm software.

Kip

--

Kipton Moravec AE5IB .- . ... -...
==========
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- Herbert J Taylor (1932)

1472. Re: [ntms-hsmm] Netgear WGR614L ? does anyone have experience with this?

Yahoo group: DAWG-HSMM
Date: 2009-08-31 13:35:12 UTC
From: Ron Cole
Topic: 1470 Message: 1472

This looks like a good routher for OpenSource use.

The Broadcom chip used is a follow on to the chip used in the WRT54 series and OpenWRT has already been ported to this new chip.

Since the same Processor core is used OSLR should run as is on this new chip, someone needs to build an image and give it a try.

Ron

--- On Mon, 8/31/09, Kipton Moravec <kip@...> wrote:

> From: Kipton Moravec <kip@...>
> Subject: Re: [ntms-hsmm] Netgear WGR614L ? does anyone have experience with this?
> To: ntms-hsmm@yahoogroups.com
> Date: Monday, August 31, 2009, 5:54 AM
> On Mon, 2009-08-31 at 06:30 +0000,
> kc6pob wrote:
> > Has anyone modded a Netgear WGR614L for hsmm
> use? I have seen them at Frys Electronics. The L
> suffix is significant as it is advertised as a Linux box
> versus the standard unit without the L. Interested in the
> unit but currently have little time to devote to development
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> to point microwave networks through my employer.
> >
> > Processor (unknown) clocked at 240MHz, 4MB flash, 16MB
> RAM. 12VDC @1A and 4 10/100 switched ports.
> >
> > 73,
> > kevin
> > kc6pob
>
> A couple of the people in Austin have them, but have not
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> time to play with them. Or support them with the hsmm
> software.
>
> Kip
>
> --
>
>
> Kipton Moravec AE5IB .- . ... -...
> ==========

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> - Herbert J Taylor (1932)
>
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> ---
>
> Yahoo! Groups Links
>
>
> mailto:ntms-hsmm-fullfeatured@yahoogroups.com
>
>
>

1473. Re: [ntms-hsmm] Netgear WGR614L ? does anyone have experience with this?

Yahoo group: DAWG-HSMM
Date: 2009-08-31 17:22:16 UTC
From: Kipton Moravec
Topic: 1470 Message: 1473

On Mon, 2009-08-31 at 06:35 -0700, Ron Cole wrote:
> This looks like a good routher for OpenSource use.
>
> The Broadcom chip used is a follow on to the chip used in the WRT54 series and OpenWRT has already been ported to this new chip.
>
> Since the same Processor core is used OSLR should run as is on this new chip, someone needs to build an image and give it a try.
>
>
> Ron
>

Do it.

Kip

>
> --- On Mon, 8/31/09, Kipton Moravec <kip@...> wrote:
>
> > From: Kipton Moravec <kip@...>
> > Subject: Re: [ntms-hsmm] Netgear WGR614L ? does anyone have experience with this?
> > To: ntms-hsmm@yahoogroups.com
> > Date: Monday, August 31, 2009, 5:54 AM
> > On Mon, 2009-08-31 at 06:30 +0000,
> > kc6pob wrote:
> > > Has anyone modded a Netgear WGR614L for hsmm
> > use? I have seen them at Frys Electronics. The L
> > suffix is significant as it is advertised as a Linux box
> > versus the standard unit without the L. Interested in the
> > unit but currently have little time to devote to development
> > work as I am working on integrating cellular, LMR, and point
> > to point microwave networks through my employer.
> > >
> > > Processor (unknown) clocked at 240MHz, 4MB flash, 16MB
> > RAM. 12VDC @1A and 4 10/100 switched ports.
> > >
> > > 73,
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> > Kipton Moravec AE5IB .- . ... -...
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Kipton Moravec AE5IB .- . ... -...
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1474. Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 14:34:18 UTC
From: cgolob
Topic: 1474 Message: 1474

I am interested in trying HSMM in Maine, first trying to use it at a neighborhood level (since there are 4 hams who live on the same street in about a 1 mile range).

I am curious what software people have found successful for different applications (voice, tranfer of files and keyboard-to-keyboard communications).

I would like to be able to do this with unmodified equipment, but if needbe, I do have another router with DD-WRT firmware on it. That router is currently being used as a wifi repeater; Can a DD-WRT router be used for HSMM and a wifi repeater at the same time??

73 DE N1URA
-Cory

1475. Re: [ntms-hsmm] Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 14:49:25 UTC
From: Kipton Moravec
Topic: 1474 Message: 1475

On Wed, 2009-09-09 at 14:34 +0000, cgolob wrote:
> I am interested in trying HSMM in Maine, first trying to use it at a neighborhood level (since there are 4 hams who live on the same street in about a 1 mile range).
>
> I am curious what software people have found successful for different applications (voice, tranfer of files and keyboard-to-keyboard communications).
>
> I would like to be able to do this with unmodified equipment, but if needbe, I do have another router with DD-WRT firmware on it. That router is currently being used as a wifi repeater; Can a DD-WRT router be used for HSMM and a wifi repeater at the same time??
>
> 73 DE N1URA
> -Cory
>

If you modify a router for HSMM by putting a gain antenna, it is no longer a part 15 device, so then only Amateur Radio operators can use it.

I am not sure what you mean by a Wifi repeater (I am guessing WDS) but yes it can be used as part of a DD-WRT WDS system and still allow users to connect wirelessly.

We are experimenting with software that makes it a Mesh network.

Kip
--

Kipton Moravec AE5IB .- . ... -...
==========
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1476. RE: [ntms-hsmm] Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 16:00:41 UTC
From: Dave
Topic: 1474 Message: 1476

I'm looking forward to doing the same here in Pueblo, Colorado. I think there are some HSMM folks in Denver or Colo Springs but so far it looks like just me. Good luck! I'm thinking of trying a EZ-Bridge setup.

Dave Mynatt
Program Director
Combined Science Center
/==========/
http://sciencecenter.no-ip.org <http://sciencecenter.no-ip.org/>
SID ID #S-0258
APRS Tier II Server @ http://pueblo.aprs2.net:14501
<http://pueblo.aprs2.net:14501/>
10 meter CW Beacon @ 28.234.5Mhz
RMS Server: 144.950Mhz KA0SWT-10
LAT: 38.26349"N LON: -104.613297"W Alt: 1460m
DM78qg // KA0SWT
Well, if I called the wrong number, why did you answer the phone? -- James Thurber, New Yorker cartoon caption, June 5, 1937
/++++++++++++++++++++++++++++++++/

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Kipton Moravec
Sent: Wednesday, September 09, 2009 8:49 AM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Interest in using HSMM in Maine

On Wed, 2009-09-09 at 14:34 +0000, cgolob wrote:
> I am interested in trying HSMM in Maine, first trying to use it at a neighborhood level (since there are 4 hams who live on the same street in about a 1 mile range).
>
> I am curious what software people have found successful for different applications (voice, tranfer of files and keyboard-to-keyboard communications).
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> I would like to be able to do this with unmodified equipment, but if needbe, I do have another router with DD-WRT firmware on it. That router is currently being used as a wifi repeater; Can a DD-WRT router be used for HSMM and a wifi repeater at the same time??
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Kipton Moravec AE5IB .- . ... -...
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No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.86/2355 - Release Date: 09/08/09 20:45:00

[Non-text portions of this message have been removed]

1477. Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 18:10:20 UTC
From: cgolob
Topic: 1474 Message: 1477

Let me rephrase. Has anybody successfully connected to another computer WITHOUT connecting to the internet and been able to communicate via voice, keyboard-to-keyboard and/ or exchange files??

I do not see any point in modifying equipment unless I absolutely need to. It is my understanding that amateur radio operators are primary users of 2.4 ghz channels 1 through 6 and we can operate at higher output whereas regular consumers are secondary users and must stay within the power range of 100mW. In fact, I do not mind if normal consumers operate this means also because ultimately I would like to set up a backup network of communications on 2.4 ghz in the event normal means of communications fail since wireless routers are affordable and readily available.

73 DE N1URA
-Cory

1478. RE: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 18:34:58 UTC
From: Dave
Topic: 1474 Message: 1478

Good question. Austin, Texas seems to have a handle on HSMM. I see your point about simple and it is a good one; Keep It Simple is the best phrase. COTS hardware, minimally changed if at all, adapted to our use by incorporating specialized antennas will work. I think the EZ-Bridge stuff seems like the way to go (maybe others?); inexpensive, COTS and if a router or switch was used at each end a complete point-to-point or mesh network -independent of the internet- will be created.

Dave
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++++/

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of cgolob
Sent: Wednesday, September 09, 2009 12:10 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Interest in using HSMM in Maine

Let me rephrase. Has anybody successfully connected to another computer WITHOUT connecting to the internet and been able to communicate via voice, keyboard-to-keyboard and/ or exchange files??

I do not see any point in modifying equipment unless I absolutely need to. It is my understanding that amateur radio operators are primary users of 2.4 ghz channels 1 through 6 and we can operate at higher output whereas regular consumers are secondary users and must stay within the power range of 100mW. In fact, I do not mind if normal consumers operate this means also because ultimately I would like to set up a backup network of communications on 2.4 ghz in the event normal means of communications fail since wireless routers are affordable and readily available.

73 DE N1URA
-Cory

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.86/2355 - Release Date: 09/08/09 20:45:00

[Non-text portions of this message have been removed]

1479. Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 19:16:59 UTC
From: cgolob
Topic: 1474 Message: 1479

I assume COTS means Commercial Off The Shelf (readily availble) devices. Looking up EZ-Bridge that must be to extend range of the signal?? Now the important piece to the puzzle is what software people are using to communicate?? For example, using Skype to connect to another computer and exchange voice data (which I doubt would work since it looks for an internet server).

73 DE N1URA
-Cory

--- In ntms-hsmm@yahoogroups.com, "Dave" <dave@...> wrote:
>
> Good question. Austin, Texas seems to have a handle on HSMM. I see your
> point about simple and it is a good one; Keep It Simple is the best phrase.
> COTS hardware, minimally changed if at all, adapted to our use by
> incorporating specialized antennas will work. I think the EZ-Bridge stuff
> seems like the way to go (maybe others?); inexpensive, COTS and if a router
> or switch was used at each end a complete point-to-point or mesh network
> -independent of the internet- will be created.
>
> Dave
> DM78qg // KA0SWT
> /++++++++++++++++++++++++++++++++/

1480. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 19:39:01 UTC
From: Brian Esche
Topic: 1474 Message: 1480

Cory, if you build an HSMM network you should be able to use most of the same applications to exchange data/voice/video/chat or transfer files that you use over the internet. The exceptions would be those applications that utilize a back-end server (such as many IM implementations) since obviously such servers wouldn't be accessible from your HSMM network. Here's an example - if someone sets up a web server somewhere on the HSMM you would be able to access it via a browser elsewhere on the HSMM network. Another example would be using telnet to gain access to a Linux box at another location. Yet another example - FTP or TFTP can be used to exchange files just as you would with an internet-based host. It's likely, though, that you would need to know the IP address of the remote device unless you add entries to your local hosts file. Coordination of address space and an exchange of host address information with other users on the HSMM would be key in successfully connecting to other devices.

In summary - most applications that operate in an IP environment will operate normally over HSMM (again, unless they have some dependency upon internet-based hosts). You won't need any special applications to accomplish the tasks you've mentioned.

73, Brian WB9QVR

Let me rephrase. Has anybody successfully connected to another computer WITHOUT connecting to the internet and been able to communicate via voice, keyboard-to- keyboard and/ or exchange files??

[Non-text portions of this message have been removed]

1481. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 20:32:35 UTC
From: Tim N9PUZ
Topic: 1474 Message: 1481

Brian Esche wrote:

> In summary - most applications that operate in an IP environment will
> operate normally over HSMM (again, unless they have some dependency
> upon internet-based hosts). You won't need any special applications
> to accomplish the tasks you've mentioned.
>
> 73, Brian WB9QVR

It should also be possible to put a small public server on the HSMM network to do DHCP and perhaps DNS for just the private network. If you end up with many participants manually allocating IP addresses could get tedious. This server of course introduces a point of failure if you're thinking of EMCOMM.

Tim, N9PUZ

1482. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 21:19:35 UTC
From: John Champa
Topic: 1474 Message: 1482

Re Applications, MS NetMeeting (sorry about that Linux folks ;o)in ad hoc mode should work, right?
Also an amplifier (bi-directional) should *NOT *normally be needed unless you have a long feed line. Find a good path (antenna height needed, gain, etc.) first!

More importantly, do a site survey *BEFORE* you select a channel (1-6) to use for HSMM. NetStumbler is a good survey tool and is FREE.
Yes, you are Part 97 (I believe we are actually secondary licensed), but it would be best not to operate on the same channel as the local unlicensed Part 15 high school, etc. (HI)

Hope that helps,
John K8OCL

On Wed, Sep 9, 2009 at 3:32 PM, Tim N9PUZ <tim.n9puz@...> wrote:

>
>
> Brian Esche wrote:
>
> > In summary - most applications that operate in an IP environment will
> > operate normally over HSMM (again, unless they have some dependency
> > upon internet-based hosts). You won't need any special applications
> > to accomplish the tasks you've mentioned.
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> > 73, Brian WB9QVR
>
> It should also be possible to put a small public server on the HSMM
> network to do DHCP and perhaps DNS for just the private network. If you
> end up with many participants manually allocating IP addresses could get
> tedious. This server of course introduces a point of failure if you're
> thinking of EMCOMM.
>
> Tim, N9PUZ
>
>
>

--
Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1483. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 21:54:53 UTC
From: Robert Ellis
Topic: 1474 Message: 1483

On Sep 9, 2009, at 3:32 PM, Tim N9PUZ wrote:

> Brian Esche wrote:
>
>> In summary - most applications that operate in an IP environment
>> will operate normally over HSMM (again, unless they have some
>> dependency upon internet-based hosts). You won't need any special
>> applications to accomplish the tasks you've mentioned.
>>
>> 73, Brian WB9QVR
>
> It should also be possible to put a small public server on the HSMM
> network to do DHCP and perhaps DNS for just the private network. If
> you end up with many participants manually allocating IP addresses
> could get tedious. This server of course introduces a point of
> failure if you're thinking of EMCOMM.

There are also IM servers that you can set up on a public server. If you have a big server, you could install Windows Communications Server. For somewhat less money and an Apple, you could setup an iChat server on OS X Server. But there are plenty of free IM servers as well.

I believe, if you and your friends have Apple computers, you can communicate without a public server using your iChat client. These clients use a service called Bonjour (aka zeroconf) to announce their presence to each other when on the same subnet. The iChat client has support for audio and video in addition to the standard text messaging. I'd be surprised if there aren't other IM clients with these features, but I don't know of any personally. (Gajim seems to have zeroconf support.)

(zeroconf is more commonly used to automatically set up printers that have ethernet support, which could come in handy in staging areas. ;))

One of the things that I like about IM clients is that some of the IM servers have support for group chat. This could be useful in an emergency setting.

And if you're worried about single points of failure, you could always create a LiveCD that includes the software that you are interested in, and distribute it to folks who have spare PCs and generators, so that if one fails, another could be brought online. ;)

Finally, I've heard that if two folks have IP phones, then you can communicate using those--no asterisk server required.

>
> Tim, N9PUZ

robert

1484. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 22:21:13 UTC
From: ALERTradio ERC | N0PCO
Topic: 1474 Message: 1484

For Voice Communications over High Speed Multi Media take a look at
Asterisk (www.asteriskradio.net).

Asterisk is a PBX and RF Gateway tool chest that can operate without the
need for a central point for the database (for example a Asterisk PBX
plus extensions using softphones, wifi phones or deskphones {using SIP /
IAX2 protocols}). Yet at the same time it has the capability to tie
together many servers together create systems and networks. Where the
Internet is available a point of access to the PSTN (regular telephone)
as well as ITSP (Internet Telephone Service) can be brought into the
system via Asterisk.

===

When HSMM gear is used under FCC Part 97 (a licensed service) the only
other service that we would be secondary to; is the government
communications. Yes, it would be best to use a "less traveled"
channel where possible.

Mars, N0PCO
ALERTradio ERC
www.alertradio.net | www.asteriskradio.net | www.darnsimple.net

John Champa wrote:
>
>
> Re Applications, MS NetMeeting (sorry about that Linux folks ;o)in ad hoc
> mode should work, right?
> Also an amplifier (bi-directional) should *NOT *normally be needed unless
> you have a long feed line. Find a good path (antenna height needed, gain,
> etc.) first!
>
> More importantly, do a site survey *BEFORE* you select a channel (1-6)
> to use for HSMM. NetStumbler is a good survey tool and is FREE.
> Yes, you are Part 97 (I believe we are actually secondary licensed),
> but it would be best not to operate on the same channel as the local
> unlicensed Part 15 high school, etc. (HI)
>
> Hope that helps,
> John K8OCL
>
> On Wed, Sep 9, 2009 at 3:32 PM, Tim N9PUZ <tim.n9puz@...
> <mailto:tim.n9puz%40gmail.com>> wrote:
>
> >
> >

> > Brian Esche wrote:
> >
> > > In summary - most applications that operate in an IP environment will
> > > operate normally over HSMM (again, unless they have some dependency
> > > upon internet-based hosts). You won't need any special applications
> > > to accomplish the tasks you've mentioned.
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> > > 73, Brian WB9QVR
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> > It should also be possible to put a small public server on the HSMM
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> > tedious. This server of course introduces a point of failure if you're
> > thinking of EMCOMM.
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> "When you can measure what you are speaking about, and express it in
> numbers, you know something about it." [Lord Kelvin 1824-1907]
>
> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

1485. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 22:23:59 UTC
From: Bill V WA7NWP
Topic: 1474 Message: 1485

> When HSMM gear is used under FCC Part 97 (a licensed service) the only
> other service that we would be secondary to; is the government
> communications.

And your neighbors microwave oven...

1486. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 23:15:18 UTC
From: Rusty Haddock
Topic: 1474 Message: 1486

John Champa wrote:
>Re Applications, MS NetMeeting (sorry about that Linux folks ;o)in ad hoc
>mode should work, right?

Yup. Been there, done that, used it in a demonstration of 802.11 for
VHF contesting. MS Netmeeting was about the only app I could EASILY
find that would allow audio/video to go point-to-point.

On the other hand, an XMPP or Jabber server could be set up on the local
network/mesh. Not sure of any Linux apps that would/could use A/V but...
I haven't looked.

This *IS* something that *NEEDS* to be researched 'cause these apps
are needed, especially for us Linux critters. :-) Guess I'll run off
and do that sometime this week.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1487. Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 23:24:56 UTC
From: cgolob
Topic: 1474 Message: 1487

I was brought up using windows and have been using Linux for the past month or so (very very new to it - using Ubuntu). I found that there is a MS Netmeeting for Linux called Gnomemeeting which also has a successor Ekiga. I wonder if Gnomemeeting would be interoperable with somebody who had MS NetMeeting.

Also I have been using a consolidated chat program called pidgin which has several chat programs in one
Supported chat networks:

* AIM
* Bonjour
* Gadu-Gadu
* Google Talk
* Groupwise
* ICQ
* IRC
* MSN
* MySpaceIM
* QQ
* SILC
* SIMPLE
* Sametime
* XMPP
* Yahoo!
* Zephyr

I am sure Yahoo and Googletalk would not work, but maybe there is a program there that can be of use.

A friend of mine thinks that Ventrillo would work, however, the free version will only accommodate up to 8 people. He is able to set up a server for it. Has anybody tried Ventrillo??

73 DE N1URA
-Cory

1488. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 23:32:41 UTC
From: D R Mynatt
Topic: 1474 Message: 1488

There are so many different types of servers I can only list a few -and they are free, easy to set up and fast: TeamSpeak (multi-caller voice comm and conference); OpenFire (video, chat, voice); HMailServer (Pop3, SMTP email); Trix (PBX).... lots of stuff that can run on an XP machine at one end on a dedicated machine, with other PCs at both ends for clients. Way many options for HSMM. And they are free.
Dave
KA0SWT

[Non-text portions of this message have been removed]

1489. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-09 23:35:12 UTC
From: D R Mynatt
Topic: 1474 Message: 1489

Yes, COTS means Commercial Off The Shelf. Way many free servers;ust look around. I use a bunch to enhance communications with my folks. OpenFire is real good.

[Non-text portions of this message have been removed]

1490. RE: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-10 01:49:08 UTC
From: Dave
Topic: 1474 Message: 1490

OpenFire and Spark with Red5 video.

Linux/Windows

Dave
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++++/

_____

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of Rusty Haddock
Sent: Wednesday, September 09, 2009 5:15 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

John Champa wrote:
>Re Applications, MS NetMeeting (sorry about that Linux folks ;o)in ad hoc
>mode should work, right?

Yup. Been there, done that, used it in a demonstration of 802.11 for
VHF contesting. MS Netmeeting was about the only app I could EASILY
find that would allow audio/video to go point-to-point.

On the other hand, an XMPP or Jabber server could be set up on the local
network/mesh. Not sure of any Linux apps that would/could use A/V but...
I haven't looked.

This *IS* something that *NEEDS* to be researched 'cause these apps
are needed, especially for us Linux critters. :-) Guess I'll run off
and do that sometime this week.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.86/2355 - Release Date: 09/08/09 20:45:00

[Non-text portions of this message have been removed]

1491. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine {drift}

Yahoo group: DAWG-HSMM
Date: 2009-09-09 22:36:31 UTC
From: Robert Ellis
Topic: 1474 Message: 1491

On Sep 9, 2009, at 5:23 PM, Bill V WA7NWP wrote:

>> When HSMM gear is used under FCC Part 97 (a licensed service) the
>> only other service that we would be secondary to; is the government
>> communications.
>
> And your neighbor's microwave oven...
>

Does that mean that when a state of emergency is declared in a
disaster area by the FCC that nobody can use microwave ovens? ;)

Hmm, I hope my microwave oven never interferes with public safety:
http://www.fcc.gov/eb/otherinfo/inspect.html
. ;)

robert

1492. RE: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-10 01:54:39 UTC
From: Dave
Topic: 1474 Message: 1492

Try Trixbox PBX; Linux based. Simple!

This is a neat concept that we in the Ham arena can use to make ECom -work-.

Dave
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++++/

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of ALERTradio ERC | N0PCO
Sent: Wednesday, September 09, 2009 4:21 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

For Voice Communications over High Speed Multi Media take a look at
Asterisk (www.asteriskradio.net).

Asterisk is a PBX and RF Gateway tool chest that can operate without the
need for a central point for the database (for example a Asterisk PBX
plus extensions using softphones, wifi phones or deskphones {using SIP /
IAX2 protocols}). Yet at the same time it has the capability to tie
together many servers together create systems and networks. Where the
Internet is available a point of access to the PSTN (regular telephone)
as well as ITSP (Internet Telephone Service) can be brought into the
system via Asterisk.

===

When HSMM gear is used under FCC Part 97 (a licensed service) the only
other service that we would be secondary to; is the government
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Mars, N0PCO
ALERTradio ERC
www.alertradio.net | www.asteriskradio.net | www.darnsimple.net

John Champa wrote:
>
>
> Re Applications, MS NetMeeting (sorry about that Linux folks ;o)in ad hoc
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> Also an amplifier (bi-directional) should *NOT *normally be needed unless
> you have a long feed line. Find a good path (antenna height needed, gain,
> etc.) first!

>
> More importantly, do a site survey *BEFORE* you select a channel (1-6)
> to use for HSMM. NetStumbler is a good survey tool and is FREE.
> Yes, you are Part 97 (I believe we are actually secondary licensed),
> but it would be best not to operate on the same channel as the local
> unlicensed Part 15 high school, etc. (HI)
>
> Hope that helps,
> John K8OCL
>
> On Wed, Sep 9, 2009 at 3:32 PM, Tim N9PUZ <tim.n9puz@gmail.
<mailto:tim.n9puz%40gmail.com> com
> <mailto:tim.n9puz%40gmail.com>> wrote:
>
> >
> >
> > Brian Esche wrote:
> >
> > > In summary - most applications that operate in an IP environment will
> > > operate normally over HSMM (again, unless they have some dependency
> > > upon internet-based hosts). You won't need any special applications
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> > >
> > > 73, Brian WB9QVR
> >
> > It should also be possible to put a small public server on the HSMM
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> > tedious. This server of course introduces a point of failure if you're
> > thinking of EMCOMM.
> >
> > Tim, N9PUZ
> >
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> --
> Nisciune nasce imparate
>
> "When you can measure what you are speaking about, and express it in
> numbers, you know something about it." [Lord Kelvin 1824-1907]
>
> [Non-text portions of this message have been removed]
>
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> .
>
>

[Non-text portions of this message have been removed]

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.86/2355 - Release Date: 09/08/09 20:45:00

[Non-text portions of this message have been removed]

1493. Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-10 05:36:07 UTC
From: kb9mwr
Topic: 1474 Message: 1493

--- In ntms-hsmm@yahoogroups.com, "cgolob" <cory.m.golob@...> wrote:
>
> Let me rephrase. Has anybody successfully connected to another computer WITHOUT connecting to the internet and been able to communicate via voice, keyboard-to-keyboard and/ or exchange files??
>

Absolutely. I've been using wireless IP phones over wireless links to ham friends for a few years. An Asterisk serve made it more fun as we could setup a conference room. In the past I've used cheap D-Link IP cameras over the same links.

In the past year I did learn of a few other HSMM deployments in my own home state:
http://kb9mwr.blogspot.com/2009/05/wecomm-digital-audio-repeater-linking.html

http://kb9mwr.blogspot.com/2009/04/wisconsin-amateur-radio-club-digital.html

http://kb9mwr.blogspot.com/2009/02/flexibility-of-hsmm-network.html

1494. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-10 07:57:52 UTC
From: John Champa
Topic: 1474 Message: 1494

I operated my HSMM node on top of and in front a microwave oven with no problem.
There is just no truth to that childish old wives tale. Sorry. Try actual experiments
instead of what you might hear on the 75M AM QSOs.

On Wed, Sep 9, 2009 at 5:23 PM, Bill V WA7NWP <wa7nwp@...> wrote:

>
>
> > When HSMM gear is used under FCC Part 97 (a licensed service) the only
> > other service that we would be secondary to; is the government
> > communications.
>
> And your neighbors microwave oven...
>
>

--
Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1495. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine {drift}

Yahoo group: DAWG-HSMM
Date: 2009-09-10 08:01:15 UTC
From: John Champa
Topic: 1474 Message: 1495

Let's stop this silly and childish and unfounded talk about microwave ovens.OK?
The folks who write that stuff and think that way deserve not to be Hams.

On Wed, Sep 9, 2009 at 5:36 PM, Robert Ellis <k5osx@...> wrote:

>
>
>
> On Sep 9, 2009, at 5:23 PM, Bill V WA7NWP wrote:
>
> >> When HSMM gear is used under FCC Part 97 (a licensed service) the
> >> only other service that we would be secondary to; is the government
> >> communications.
> >
> > And your neighbor's microwave oven...
> >
>
> Does that mean that when a state of emergency is declared in a
> disaster area by the FCC that nobody can use microwave ovens? ;)
>
> Hmm, I hope my microwave oven never interferes with public safety:
> http://www.fcc.gov/eb/otherinfo/inspect.html
> . ;)
>
> robert
>
>

--
Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in
numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1496. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-10 10:15:45 UTC
From: Ben Jackson
Topic: 1474 Message: 1496

John Champa wrote:
> I operated my HSMM node on top of and in front a microwave oven with no
> problem.
> There is just no truth to that childish old wives tale. Sorry. Try actual
> experiments
> instead of what you might hear on the 75M AM QSOs.

Gosh darn it, my anecdotal evidence is more sound then your anecdotal
evidence! ;)

As always, YMMV, but... I had a Part 15 802.11b AP that would stop
functioning when the Microwave nearby was on. It wasn't coincidence
either, I verified it by testing it repeatedly.

This was 2000-2001ish, so there might have been advances to better
compensate with interference, but it isn't unfounded.

--
Ben Jackson - N1WBV - New Bedford, MA
bbj <at> innismir.net - http://www.innismir.net/

1497. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-10 16:47:46 UTC
From: Josh Mercer
Topic: 1474 Message: 1497

Ben Jackson wrote:
>
>
> John Champa wrote:
> > I operated my HSMM node on top of and in front a microwave oven with no
> > problem.
> > There is just no truth to that childish old wives tale. Sorry. Try actual
> > experiments
> > instead of what you might hear on the 75M AM QSOs.
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> Gosh darn it, my anecdotal evidence is more sound then your anecdotal
> evidence! ;)
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> As always, YMMV, but... I had a Part 15 802.11b AP that would stop
> functioning when the Microwave nearby was on. It wasn't coincidence
> either, I verified it by testing it repeatedly.
>
> This was 2000-2001ish, so there might have been advances to better
> compensate with interference, but it isn't unfounded.

I agree with Ben that it is not unfounded. I worked for an ISP that was deploying indoor and outdoor wifi nodes and there were situations where industrial microwave ovens found in some food places (Subway, Starbucks, etc) would actually knock users offline. We could repeatedly re-create the problem and used a laptop based "spectrum analyzer" to see what was going on. Now, that being said, I have never had any problems while running my microwave at home and using my laptop, wifi phone etc. so I dont think a blanket statement about it "always" or "never" affecting devices is applicable.

KE5FCO

1498. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-10 18:51:33 UTC
From: John Champa
Topic: 1474 Message: 1498

Ben. All I can suggest is that you stop buying cheap microwave ovens (HI).
73,
John K8OCL

On Thu, Sep 10, 2009 at 5:15 AM, Ben Jackson <bbj@...> wrote:

>
>
> John Champa wrote:
> > I operated my HSMM node on top of and in front a microwave oven with no
> > problem.
> > There is just no truth to that childish old wives tale. Sorry. Try actual
> > experiments
> > instead of what you might hear on the 75M AM QSOs.
>
> Gosh darn it, my anecdotal evidence is more sound then your anecdotal
> evidence! ;)
>
> As always, YMMV, but... I had a Part 15 802.11b AP that would stop
> functioning when the Microwave nearby was on. It wasn't coincidence
> either, I verified it by testing it repeatedly.
>
> This was 2000-2001ish, so there might have been advances to better
> compensate with interference, but it isn't unfounded.
>
> --
> Ben Jackson - N1WBV - New Bedford, MA
> bbj <at> innismir.net - http://www.innismir.net/
>
>
>

--
Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in
numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1499. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-10 18:59:30 UTC
From: John Champa
Topic: 1474 Message: 1499

Josh,
That is probably the best overall approach, "sometimes. but not always".
Wonder is food particles on the door frame might weaken the shielding.
AMSAT did massive studies to try to determine if a 2.4 GHz link might
be disturbed by all the microwave ovens on Earth. It just wasn't a factor.
Poor antennas? (HI)

On the other hand many of the RMG guys do not like us for "contributing to
the
noise floor". Each his own, right?

In the end, I stick by my original claim that microwave ovens are not an
issue
of any significance and to focus and work on that aspect is a waste of time.
Our very limited resources are better devoted to other aspects than a nit.

73,
John K8OCL

On Thu, Sep 10, 2009 at 11:47 AM, Josh Mercer <josh_mercer@...>wrote:

>
>
>
> Ben Jackson wrote:
> >
> >
> > John Champa wrote:
> > > I operated my HSMM node on top of and in front a microwave oven with no
> > > problem.
> > > There is just no truth to that childish old wives tale. Sorry. Try
> actual
> > > experiments
> > > instead of what you might hear on the 75M AM QSOs.
> >
> > Gosh darn it, my anecdotal evidence is more sound then your anecdotal
> > evidence! ;)
> >
> > As always, YMMV, but... I had a Part 15 802.11b AP that would stop
> > functioning when the Microwave nearby was on. It wasn't coincidence
> > either, I verified it by testing it repeatedly.
> >
> > This was 2000-2001ish, so there might have been advances to better
> > compensate with interference, but it isn't unfounded.
>
> I agree with Ben that it is not unfounded. I worked for an ISP that was

> deploying indoor and outdoor wifi nodes and there were situations where
> industrial microwave ovens found in some food places (Subway, Starbucks,
> etc) would actually knock users offline. We could repeatedly re-create
> the problem and used a laptop based "spectrum analyzer" to see what was
> going on. Now, that being said, I have never had any problems while
> running my microwave at home and using my laptop, wifi phone etc. so I
> dont think a blanket statement about it "always" or "never" affecting
> devices is applicable.
>
> KE5FCO
>
>
>

--
Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in
numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1500. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-12 15:41:26 UTC
From: jbeadles@pobox.com
Topic: 1474 Message: 1500

On 9 Sep 2009 at 18:10, cgolob wrote:

> Let me rephrase. Has anybody successfully connected to another
> computer WITHOUT connecting to the internet and been able to
> communicate via voice, keyboard-to-keyboard and/ or exchange files??

Yep. Nothing magic about being connected to "the internet". Anybody can
set up web or ftp servers, and there's client to client software for virtually
everything that don't need servers. The only issue you might really run
across is that you'd have to use IP addresses instead of domain names if
you don't have a DNS server on your network.

John Beadles, N5OOM
jbeadles@...
416-625-5247 (Canada Cell Phone)

1501. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-12 15:38:31 UTC
From: jbeadles@pobox.com
Topic: 1474 Message: 1501

Confirm asterisk - I'm using it through the "PBX in a flash" distribution, which includes a complete Asterisk & linux installation on a single CD. I'm in Canada, using it installed on a server back in Dallas to make all my calls back home. However, it works fine as a local PBX with no external internet connection.

On 9 Sep 2009 at 17:21, ALERTradio ERC | N0PCO wrote:

> For Voice Communications over High Speed Multi Media take a look at
> Asterisk (www.asteriskradio.net).
>
> Asterisk is a PBX and RF Gateway tool chest that can operate without the
> need for a central point for the database (for example a Asterisk PBX
> plus extensions using softphones, wifi phones or deskphones {using SIP /
> IAX2 protocols}). Yet at the same time it has the capability to tie
> together many servers together create systems and networks. Where the
> Internet is available a point of access to the PSTN (regular telephone)
> as well as ITSP (Internet Telephone Service) can be brought into the
> system via Asterisk.
>
> ===
>
> When HSMM gear is used under FCC Part 97 (a licensed service) the only
> other service that we would be secondary to; is the government
> communications. Yes, it would be best to use a "less traveled"
> channel where possible.
>
> Mars, N0PCO
> ALERTradio ERC
> www.alertradio.net | www.asteriskradio.net | www.darnsimple.net
>
>
>
> John Champa wrote:
> >
> >
> > Re Applications, MS NetMeeting (sorry about that Linux folks ;o)in ad hoc
> > mode should work, right?
> > Also an amplifier (bi-directional) should *NOT *normally be needed unless
> > you have a long feed line. Find a good path (antenna height needed, gain,
> > etc.) first!
> >
> > More importantly, do a site survey *BEFORE* you select a channel (1-6)
> > to use for HSMM. NetStumbler is a good survey tool and is FREE.
> > Yes, you are Part 97 (I believe we are actually secondary licensed),
> > but it would be best not to operate on the same channel as the local

> > unlicensed Part 15 high school, etc. (HI)
> >
> > Hope that helps,
> > John K8OCL
> >
> > On Wed, Sep 9, 2009 at 3:32 PM, Tim N9PUZ <tim.n9puz@...
> > <mailto:tim.n9puz%40gmail.com>> wrote:
> >
> > >
> > >
> > > Brian Esche wrote:
> > >
> > > > In summary - most applications that operate in an IP environment will
> > > > operate normally over HSMM (again, unless they have some dependency
> > > > upon internet-based hosts). You won't need any special applications
> > > > to accomplish the tasks you've mentioned.
> > > >
> > > > 73, Brian WB9QVR
> > >
> > > It should also be possible to put a small public server on the HSMM
> > > network to do DHCP and perhaps DNS for just the private network. If you
> > > end up with many participants manually allocating IP addresses could get
> > > tedious. This server of course introduces a point of failure if you're
> > > thinking of EMCOMM.
> > >
> > > Tim, N9PUZ
> > >
> > >
> > >
> >
> > --
> > Nisciune nasce imparate
> >
> > "When you can measure what you are speaking about, and express it in
> > numbers, you know something about it." [Lord Kelvin 1824-1907]
> >
> > [Non-text portions of this message have been removed]
> >
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>
> [Non-text portions of this message have been removed]
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> ---

>
> Yahoo! Groups Links
>
>
>

John Beadles
jbeadles@...
972-898-0843 (US Cell Phone)
416-625-5247 (Canada Cell Phone)

1502. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-12 20:38:28 UTC
From: Glenn Currie
Topic: 1474 Message: 1502

I have been overwhelmed with issues at work and not been able to spend time with the HSMM email lists for about a week. I have been interested in the HSMM stuff for years and have pushed to try to help overcome some of the practical problems to make the stuff easier to use, cheap and generally promote a robust broad band communications for ham radio use.

Great work guys, lots of good questions, answers and discussions.

I look forward to following all the interesting URL pointers to interesting information.

While I may have been able to help with some of the questions, most look like they were eventually well answered and have made fantastic use of this yahoo group tool.

Sorry I was out of action for so long. I had over 200 HSMM related emails to sort through this Saturday morning / afternoon.

Thanks for the interest and good info shared. I am convinced that this HSMM stuff is interesting to tinker with, and also quite useful for a variety of ECOM work.

We just need to share what information we have and keep getting in real results from field testing so we can help others understand what HSMM is good for, but not over sell it.

There is a lot to it, and the info is EASILY confused.

After working with it for 8 years, I learn new stuff about it every time I set up another test and do some field work or more reading.

After a very tough week at work, it is enormously refreshing to see so much activity regarding HSMM.

Keep the info and questions coming!

-Glenn
KD5MFW
HSMM-MESH experimenter in the Austin, Texas area.

--- On Sat, 9/12/09, jbeadles@... <jbeadles@...> wrote:

From: jbeadles@pobox.com <jbeadles@...>
Subject: Re: [ntms-hsmm] Re: Interest in using HSMM in Maine
To: ntms-hsmm@yahoogroups.com
Date: Saturday, September 12, 2009, 10:41 AM

On 9 Sep 2009 at 18:10, cgolob wrote:

> Let me rephrase. Has anybody successfully connected to another

> computer WITHOUT connecting to the internet and been able to

> communicate via voice, keyboard-to- keyboard and/ or exchange files??

Yep. Nothing magic about being connected to "the internet". Anybody can set up web or ftp servers, and there's client to client software for virtually everything that don't need servers. The only issue you might really run across is that you'd have to use IP addresses instead of domain names if you don't have a DNS server on your network.

John Beadles, N5OOM

jbeadles@pobox. com

416-625-5247 (Canada Cell Phone)

[Non-text portions of this message have been removed]

1503. Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-13 03:09:48 UTC
From: h0chus_p0ckus
Topic: 1474 Message: 1503

> Let me rephrase. Has anybody successfully connected to another
> computer WITHOUT connecting to the internet

Sounds like you want to set up your NIC for an "ad hoc" network, which means whatever computer(s) it is within range of, become a peer-to-peer network. No internet needed. Any software that works from one computer to the next, should work on an ad hoc network just as well as it would on the internet.

Check it out, there are a couple of major efforts to deploy these over large areas, i.e. whole neighborhoods or cities, via WiFi.

1504. Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-13 08:16:20 UTC
From: Glenn Currie
Topic: 1474 Message: 1504

Perhaps this has been answered many times already. I have been too busy to check messages on this list for over a week.

Yes, there are many ways to connect two computers via wireless links without using the Internet. It has been done by many people for about a decade now.

One way is to use the ham radio oriented HSMM-MESH developed by the Austin HSMM Special Interest group.

The idea behind HSMM-MESH is to take advantage of inexpensive consumer wireless computer networking equipment (wireless routers) that come out of the box, usable in the 2.4 GHZ ham band.

HSMM-MESH is basically a firmware update for a Linksys WRT54GL wireless router and its purpose is to network many computers without any need for the Internet. Voice over IP (VoIP), - digital telephone, file transfer, keyboard, mouse screen linking, live video can all be passed with absolutely no need for an Internet connection.

It CAN be connected to the Internet very easily, if you want to, but it is designed to be a rugged ECOM broadband ham radio digital network that requires only the resources provided by individual hams in an area.

Basically to use HSMM mesh you buy several WRT54GL routers, load the HSMM-MESH (trademarked) firmware which is free, into the routers. This takes about 5 minutes to do once you know how.

Your call sign is also added so the mesh node beacons your call sign for you automatically.

Here is an example of a point to point link.

Pug your PC into the back of a mesh node using a CAT-5 cable. Have someone you wish to link to plug their PC into the back of their mesh node and if the nodes are within RF range, they will automatically link and passing data in about 5 seconds.

You now have a basic link that is essentially equal to connecting the two PCs back to back with a single CAT-5 cable.

ALL the rest is standard computer networking.

Now computer networking is a very large subject, but ANYTHING you could do with the two computers wired back to back, and more, can be done using the mesh wireless links, instead of the CAT-5 CABLE.

The computers are essentially unaware of any difference between the connections.

Now you could fill a library with books on what you can do with the system now.

We have the mesh nodes auto linking and working nicely. We are now working on several applications. to use the network.

One is to support VoIP telephone service over the mesh, with no connection to the Internet required. It can be a complete stand alone system.

You will be able to connect it to the Internet but it is designed to be very useful and very robust, without requiring any connection, whatsoever to the Internet.

There are a lot of details and people working on the details.

To easily understand how all this works, requires two main areas of knowledge,
Computer Networking
and
modern broadband RF techniques.

Both are huge topics. If you are an expert in both we have had new HSMM members set up stations and be passing data withing 4 hours of receiving the HSMM-MESH firmware. This is quite the exception, as this person is quite an expert in both areas.

He set up 2 stations and passed data between two stations several miles apart, in about 4 hours of reciept of the HSMM-MESH firmware code.

Most hams could not do that, but it has been done by a mermber of the Austin HSMM SIG.

If you are not an expert in both the needed areas, don't give up. Keep up with the groups like this one and hams are working hard to get large modules of ready to deploy and use systems that simply need you to know how to use a web browser, like Internet Explorer or Firefox in order to use them.

In most areas of ham radio you have people that participate at all levels.

We are working VERY, VERY had to make a HSMM-MESH easy to use and have some very useful Video and telephone applications running that require minimal knowledge and training to use.

So if you have an interest, and keep asking questions and work out a step by step plan that gets your from where you are with HSMM, to where you want to be.

Please keep in mind the HSMM-MESH developers are all doing their development work in their spare time, so we proceed as resources allow.

But the more we can get the word out that good stuff can be done wiht cheap consumer routers modified for ham radio use, the more resources we will have to work with.

Thanks for yoru intrest.

-Glenn
KD5MFW
kd5mfw@...t

--- On Sat, 9/12/09, h0chus_p0ckus <ahoytheresailor@...> wrote:

From: h0chus_p0ckus <ahoytheresailor@...>
Subject: [ntms-hsmm] Re: Interest in using HSMM in Maine
To: ntms-hsmm@yahoogroups.com
Date: Saturday, September 12, 2009, 10:09 PM

> Let me rephrase.. Has anybody successfully connected to another

> computer WITHOUT connecting to the internet

Sounds like you want to set up your NIC for an "ad hoc" network, which means whatever computer(s) it is within range of, become a peer-to-peer network. No internet needed. Any software that works from one computer to the next, should work on an ad hoc network just as well as it would on the internet.

Check it out, there are a couple of major efforts to deploy these over large areas, i.e. whole neighborhoods or cities, via WiFi.

[Non-text portions of this message have been removed]

1505. RE: [ntms-hsmm] Re: Interest in using HSMM in Maine

Yahoo group: DAWG-HSMM
Date: 2009-09-13 18:47:25 UTC
From: Dave
Topic: 1474 Message: 1505

Glen- You got it; HSMM is really simple, easy, fast, quick and right up our alley. Try Trix as a PBX; because of its' installation process my feeling is that it is much better than Ask.. . It is also an OS so bring an empty PC you can dedicate. It has OpenFire inside and that, along with Spark gives text, email, voice, web camera images, file transfer.... So much.

So, IMHO; if you want to do Ecom right, do a HSMM link between a field support group and a base camp. With the right antennas and maybe an amp (in-line) a distance of many miles can be set up. No, not HF but really full-featured and able to cover a good part of an area.

Now to build a *single* CD of Trix with an OS, Paclink, RMS, sound card TNC, and a smiley face too. With pictures, of course.

Dave Mynatt
/==========/
http://sciencecenter.no-ip.org <http://sciencecenter.no-ip.org/>
APRS Tier II Server @ http://pueblo.aprs2.net:14501
<http://pueblo.aprs2.net:14501/>
10 meter CW Beacon @ 28.234.5Mhz
RMS Server: 144.950Mhz KA0SWT-10
LAT: 38.26349"N LON: -104.613297"W Alt: 1460m
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++/

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Glenn Currie
Sent: Sunday, September 13, 2009 2:16 AM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Re: Interest in using HSMM in Maine

Perhaps this has been answered many times already. I have been too busy to check messages on this list for over a week.

Yes, there are many ways to connect two computers via wireless links without using the Internet. It has been done by many people for about a decade now.

One way is to use the ham radio oriented HSMM-MESH developed by the Austin HSMM Special Interest group.

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Both are huge topics. If you are an expert in both we have had new HSMM members
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SIG.

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groups like this one and hams are working hard to get large modules of ready to
deploy and use systems that simply need you to know how to use a web browser,
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knowledge and training to use.

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Please keep in mind the HSMM-MESH developers are all doing their development
work in their spare time, so we proceed as resources allow.

But the more we can get the word out that good stuff can be done wiht cheap consumer routers modified for ham radio use, the more resources we will have to work with.

Thanks for yoru intrest.

-Glenn
KD5MFW
kd5mfw@arrl. <mailto:kd5mfw%40arrl.net> net

--- On Sat, 9/12/09, h0chus_p0ckus <ahoytheresailor@ <mailto:ahoytheresailor%40gmail.com> gmail.com> wrote:

From: h0chus_p0ckus <ahoytheresailor@ <mailto:ahoytheresailor%40gmail.com> gmail.com>
Subject: [ntms-hsmm] Re: Interest in using HSMM in Maine
To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
Date: Saturday, September 12, 2009, 10:09 PM

> Let me rephrase.. Has anybody successfully connected to another

> computer WITHOUT connecting to the internet

Sounds like you want to set up your NIC for an "ad hoc" network, which means whatever computer(s) it is within range of, become a peer-to-peer network. No internet needed. Any software that works from one computer to the next, should work on an ad hoc network just as well as it would on the internet.

Check it out, there are a couple of major efforts to deploy these over large areas, i.e. whole neighborhoods or cities, via WiFi.

[Non-text portions of this message have been removed]

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.94/2367 - Release Date: 09/13/09 05:50:00

[Non-text portions of this message have been removed]

1506. ISO 6523 Naming for Networks, Services and Applications

Yahoo group: DAWG-HSMM
Date: 2009-09-14 01:24:40 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1474 Message: 1506

Hi Folks!

Here is an idea that may be useful for structuring network element and service or application identifiers for Amateur Radio.

Years ago, this was something that was cooked up to get us past the IP address space and broaden the naming conventions that we might choose to use within Amateur Radio. It was always thought that the old "protocol wars" of Amateur Packet Radio needed to be transcended and this was an intellectual product that may be useful in a broader context. With HSMM introducing notions of Hinternet and Internet interoperability, we might want to take a look at this coding scheme for our HSM networks, services and applications.

Check out Code "0011" in the ISO 6523 document and perhaps we could start a dialogue on that either here or elsewhere.

http://www.cyber-identity.com/download/ICD-list.pdf

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

_____ Information from ESET Smart Security, version of virus signature database 4422 (20090913) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 4422 (20090913) _____

The message was checked by ESET Smart Security.

http://www.eset.com

[Non-text portions of this message have been removed]

1507. Re: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

Yahoo group: DAWG-HSMM
Date: 2009-09-14 03:18:41 UTC
From: Glenn Currie
Topic: 1474 Message: 1507

Lots of new stuff to consider as new horizons open up.

Most of the world is going to IPv6 - eventually. But there is an almost infinite number of things you can layer on top of it.

Thanks for the pointer I have down loaded it and will check it out. There is a lot of stuff form the old TexNet packet system that we still discuss as well.

-Glenn
kd5mfw@...

--- On Sun, 9/13/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...> wrote:

From: J. Gordon Beattie, Jr., W2TTT <w2ttt@...>
Subject: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications
To: ntms-hsmm@yahoogroups.com
Date: Sunday, September 13, 2009, 8:24 PM

Hi Folks!

Here is an idea that may be useful for structuring network element and

service or application identifiers for Amateur Radio.

Years ago, this was something that was cooked up to get us past the IP

address space and broaden the naming conventions that we might choose to use

within Amateur Radio. It was always thought that the old "protocol wars" of

Amateur Packet Radio needed to be transcended and this was an intellectual

product that may be useful in a broader context. With HSMM introducing

notions of Hinternet and Internet interoperability, we might want to take a

look at this coding scheme for our HSM networks, services and applications.

Check out Code "0011" in the ISO 6523 document and perhaps we could start a

dialogue on that either here or elsewhere.

http://www.cyber- identity. com/download/ ICD-list. pdf

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

_____ Information from ESET Smart Security, version of virus signature database 4422 (20090913) _____

The message was checked by ESET Smart Security.

http://www.eset. com

_____ Information from ESET Smart Security, version of virus signature database 4422 (20090913) _____

The message was checked by ESET Smart Security.

http://www.eset. com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1508. RE: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

Yahoo group: DAWG-HSMM
Date: 2009-09-14 03:43:41 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1474 Message: 1508

Glenn,

IPv6 is the right answer, but I was thinking, as you hinted, that we may want to consider it for what rides above it, so that we don't need to resolve IPv6 addresses associated with specific applications and services manually.

We might consider integrating the interoperability controls into the naming at gateways for instance, and knowing the application name and domain in which it rests may be useful. For example, even when there is no radio involved, Echolink wants validated users or service points, so if we parceled out a service name that implied Echolink, then it would be able to autonomously determine who gets naming space in their world while also enabling those who are so "blessed" to seamlessly integrate their systems.

So (heresy to follow) if we wanted to allow Echolink to IRLP to DSTAR integrated networks or integrate any of those with other networks or application services, we would have a way to indicate to our edge gateways (application or service and not necessarily network gateways) how to carry the transaction or other communication.

Read on and we can discuss it some more when we all have had some time to brainstorm a bit.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Glenn Currie
Sent: Monday, September 14, 2009 3:19 AM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

Lots of new stuff to consider as new horizons open up.

Most of the world is going to IPv6 - eventually. But there is an almost infinite
number of things you can layer on top of it.

Thanks for the pointer I have down loaded it and will check it out. There is
a lot of stuff form the old TexNet packet system that we still discuss as well.

-Glenn
kd5mfw@arrl. <mailto:kd5mfw%40arrl.net> net

--- On Sun, 9/13/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...
<mailto:w2ttt%40att.net> > wrote:

From: J. Gordon Beattie, Jr., W2TTT <w2ttt@... <mailto:w2ttt%40att.net>
>
Subject: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications
To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
Date: Sunday, September 13, 2009, 8:24 PM

Hi Folks!

Here is an idea that may be useful for structuring network element and

service or application identifiers for Amateur Radio.

Years ago, this was something that was cooked up to get us past the IP

address space and broaden the naming conventions that we might choose to use

within Amateur Radio. It was always thought that the old "protocol wars" of

Amateur Packet Radio needed to be transcended and this was an intellectual

product that may be useful in a broader context. With HSMM introducing

notions of Hinternet and Internet interoperability, we might want to take a

look at this coding scheme for our HSM networks, services and applications.

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201.314.6964

_____ Information from ESET Smart Security, version of virus signature

database 4422 (20090913) _____

The message was checked by ESET Smart Security.

http://www.eset. com

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[Non-text portions of this message have been removed]

1509. Re: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

Yahoo group: DAWG-HSMM
Date: 2009-09-14 04:16:47 UTC
From: ALERTradio ERC | N0PCO
Topic: 1474 Message: 1509

Is there some way that the AMPR addresses would fit in here too?

Seems like a bit of dejavu for a moment with the thoughts of the TexNet and AMPR.org numbers. Nice to be able to look back and forward to the many good things that have come about over the years.

The adventure continues ...

Mars, N0PCO
ALERTradio ERC
www.alertradio.net | www.asteriskradio.net | www.darnsimple.net

Glenn Currie wrote:
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>
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>
> -Glenn
> kd5mfw@... <mailto:kd5mfw%40arrl.net>
>
> --- On Sun, 9/13/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...
> <mailto:w2ttt%40att.net>> wrote:
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> From: J. Gordon Beattie, Jr., W2TTT <w2ttt@...
> <mailto:w2ttt%40att.net>>
> Subject: [ntms-hsmm] ISO 6523 Naming for Networks, Services and
> Applications
> To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> Date: Sunday, September 13, 2009, 8:24 PM
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>
> Thanks & 73,
>
> Gordon Beattie, W2TTT
>
>
> .
>
>

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1510. RE: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

Yahoo group: DAWG-HSMM
Date: 2009-09-14 05:46:11 UTC
From: Glenn Currie
Topic: 1474 Message: 1510

Yes,

For a variety of reasons, having ways to be more cleaver about how to traverse an enormous address's space will pay dividends in better response.

We are looking at ways to make the best use of APRS messaging, and possibly add messages for mesh status.

There was an article in QEX a while back by Mitchell where he showed how he had integrated a wide variety of digital ham modes.

As for D-STAR, EchoLInk etc. we need to do our best to blend them together. Recently Bob, B. the inventor of APRS proposed a universal text message scheme for ham radio. I am still pondering the implications.

I am interested in fast smart routing so when we can use our fixed and mobile mesh nodes in a store and forward way to pass data, we have an efficient system. Some sort of tagging could bypass a brute dumb, brute force method of linking.

Lots to think about, thanks for pointing out the previous efforts in this area.

We hams (at least some of us) really get on all the different government agencies to work out better interoperability. We have plenty of our own interoperability within ham modes to keep us busy for quite a while.

If the data / message every goes through a server, we should have some way to cross link it to whatever other modes make sense. Sending live video as short APRS messages just does not sound like a good idea just due to bandwidth considerations, but many of the major digital modes remain "islands" in a digital sea and we should do what we can to cross link them, and some sort of tagging system at a higher level than IP could be used to sort it out.

Lots to think about.

-Glenn

--- On Sun, 9/13/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...> wrote:

From: J. Gordon Beattie, Jr., W2TTT <w2ttt@...>
Subject: RE: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications
To: ntms-hsmm@...m
Date: Sunday, September 13, 2009, 10:43 PM

Glenn,

IPv6 is the right answer, but I was thinking, as you hinted, that we may

want to consider it for what rides above it, so that we don't need to resolve IPv6 addresses associated with specific applications and services manually.

We might consider integrating the interoperability controls into the naming at gateways for instance, and knowing the application name and domain in which it rests may be useful. For example, even when there is no radio involved, Echolink wants validated users or service points, so if we parceled out a service name that implied Echolink, then it would be able to autonomously determine who gets naming space in their world while also enabling those who are so "blessed" to seamlessly integrate their systems.

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Read on and we can discuss it some more when we all have had some time to brainstorm a bit.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com] On Behalf Of Glenn Currie

Sent: Monday, September 14, 2009 3:19 AM

To: ntms-hsmm@yahoogrou ps.com

Subject: Re: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

Lots of new stuff to consider as new horizons open up.

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infinite

number of things you can layer on top of it.

Thanks for the pointer I have down loaded it and will check it out. There

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a lot of stuff form the old TexNet packet system that we still discuss as

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-Glenn

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<mailto:w2ttt% 40att.net> > wrote:

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>

Subject: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

To: ntms-hsmm@yahoogrou <mailto:ntms- hsmm%40yahoogrou ps.com> ps.com

Date: Sunday, September 13, 2009, 8:24 PM

Hi Folks!

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1511. Re: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

Yahoo group: DAWG-HSMM
Date: 2009-09-14 06:03:25 UTC
From: Glenn Currie
Topic: 1474 Message: 1511

AMPR.org numbers definitely should be considered. There have been pieces of work done the past that still have a place. There was a lot of effort and good ideas developed, then the Internet took off, and now we are back to seeing how we can fit some of the pieces together.

I am confident that some pieces like AMPR.org numbers probably still have some value, even though the world has changed a lot and they are not a complete solution to the new world.

The particular HSMM-MESH work we are doing in Austin is just ONE way to do things. We have worked for years to get a complete working system together that solves many of the problems of our original target project. We have that figured out, but our current efforts are an initial effort to get something that is truly useful and get it built
as cheaply as possible. That is why we went with the wireless routers - too cheap and too good to pass up.

But it is just a start (years of work for our team, but still, one specific example of what can be done) and we are ever adding to it and looking for ways to expand. Once there is more interest we will gain more resources and if we get enough hams buying gear, the manufacturers may start to pay attention to our needs / interests. Many small changes by the manufacturer would be helpful to the ham community. We just have to have enough people buying gear to catch the interests of the manufacturers.

This is possible, not just a pipe dream. Cisco, does not have to continue to make the WRT54GL or introduce the WRT160NL, but they have features put there especially for the hackers (among programmer experimenters, hacker is not a negative term, it is like "home brew") So Cisco is paying some attention and producing products for the experimenters and not just the mass market, and they don't have to do that.

If we get a few large mesh systems in Austin, the Dallas area etc. Cisco and others will hear about it.

Remember our 2 meter radios started out as converted taxi cab an deliver truck radios and look what they are like now.

Lots and lots of cool stuff to do.

So many projects, so little time.

-Glenn

--- On Sun, 9/13/09, ALERTradio ERC | N0PCO <n0pco@...> wrote:

From: ALERTradio ERC | N0PCO <n0pco@...>
Subject: Re: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications
To: ntms-hsmm@yahoogroups.com
Date: Sunday, September 13, 2009, 11:16 PM

Is there some way that the AMPR addresses would fit in here too?

Seems like a bit of dejavu for a moment with the thoughts of the TexNet

and AMPR.org numbers. Nice to be able to look back and forward to the

many good things that have come about over the years.

The adventure continues ...

Mars, N0PCO

ALERTradio ERC

www.alertradio. net | www.asteriskradio. net | www.darnsimple. net

Glenn Currie wrote:

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> kd5mfw@arrl. net <mailto:kd5mfw% 40arrl.net>

>

> --- On Sun, 9/13/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...

> <mailto:w2ttt% 40att.net> > wrote:

>

> From: J. Gordon Beattie, Jr., W2TTT <w2ttt@...

> <mailto:w2ttt% 40att.net> >

> Subject: [ntms-hsmm] ISO 6523 Naming for Networks, Services and

> Applications

> To: ntms-hsmm@yahoogrou ps.com <mailto:ntms- hsmm%40yahoogrou ps.com>

> Date: Sunday, September 13, 2009, 8:24 PM

>

>

>

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> Thanks & 73,

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> Gordon Beattie, W2TTT

>

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>

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[Non-text portions of this message have been removed]

1512. RE: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

Yahoo group: DAWG-HSMM
Date: 2009-09-14 06:46:47 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1474 Message: 1512

Mars,

Of course!

I'm thinking that we need to move beyond the simple issue of network (meaning L3/4 depending on your stack preference) to naming conventions that applications and cross-platform services and their gateways need to consider. I'm really not interested in playing the network protocol wars again, but would prefer to concentrate on developing conventions that users and/or their applications can implement to facilitate seamless integration of their services and applications.

Glenn's notes address some of that and we can discuss things further.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of ALERTradio ERC | N0PCO
Sent: Monday, September 14, 2009 4:17 AM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

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The adventure continues ...

Mars, N0PCO
ALERTradio ERC
www.alertradio.net | www.asteriskradio.net | www.darnsimple.net

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>

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http://www.eset.com

[Non-text portions of this message have been removed]

1513. Frequency Usage

Yahoo group: DAWG-HSMM
Date: 2009-09-14 06:54:22 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1474 Message: 1513

Glenn,

Shift of subject.one thing that I really need to do is to check how far we can really go on 2.4 WiFi these days.

Several years ago, we could go almost a mile with directional antennas and 18db/500mW bi-directional amplifiers.

Now, I think going several hundred feet is going to be an issue at 2.4 because of the number of systems in our area.

I did a simple one mile ride from home to church and found 100+ WiFi access points in addition to the very strong "public" access point operated on our main street by the local cable company. I'll need to check on the channel distribution of all these sites to see if this can be managed through channel selection.

We'll see!

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

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[Non-text portions of this message have been removed]

1514. Re: [ntms-hsmm] Frequency Usage

Yahoo group: DAWG-HSMM
Date: 2009-09-14 12:17:50 UTC
From: Kipton Moravec
Topic: 1474 Message: 1514

For the Richardson Wild Ride, for two years now, we have had a router with a 19 db antenna connect 5 miles to a router with a 15 db antenna, and at the same time connect 10 miles to a router with a 24 db antenna. We were running horizontal polarity to cut down the interference, but it is possible to go long distance. The biggest issue for long distance is getting line of sight.

I intend to try to reduce the local noise by mounting the antennas on the top of tall structures like water towers. It puts them farther from home users, shields them from the closest ones (the new water towers around here have a flatter top), and gets the antenna high enough that you can see the next site 5, 10, or more miles away.

Kip

On Mon, 2009-09-14 at 06:54 +0000, J. Gordon Beattie, Jr., W2TTT wrote:
> Glenn,
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> can really go on 2.4 WiFi these days.
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> 201.314.6964
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> _____ Information from ESET Smart Security, version of virus signature
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> ------------------------------------
>
> Yahoo! Groups Links
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Kipton Moravec AE5IB .- . ... -...
==========
Four Way Test
Is it the Truth?
Is it Fair to all concerned?
Will it build Goodwill and Better Friendships?
Will it be Beneficial to all concerned?
- Herbert J Taylor (1932)

1515. Re: Frequency Usage

Yahoo group: DAWG-HSMM
Date: 2009-09-14 12:43:44 UTC
From: s_ahlbom
Topic: 1474 Message: 1515

I have routinely made 8-10 mile connections from residential neighborhoods with 20+ AP's showing up, using the same antenna (at 20') and 400 mw power you mentioned. Our HSMM AP was up 300' on a tower and just barely "line of sight" through the trees using a 14 dB gain slotted waveguide omni antenna and 400 mw.

At my home I set up three typical consumer AP's in about a 50' radius around my HSMM dish at 20' and connected to another of our HSMM nodes about 6 miles away. I could only see a very slight decrease in data throughput when the three local AP's were turned on and streaming data, which really surpised me. The distant AP was only about "40%" signal strength on channel 3 on the Engenius ECB-8610, while the local AP's were "90%" on Channels 1 and 6.

This was on the W3EOC digital network in SE PA. I have since moved to NC ... and really miss the HSMM capability we had.

Steve, W3AHL

--- In ntms-hsmm@yahoogroups.com, "J. Gordon Beattie, Jr., W2TTT" <w2ttt@...> wrote:
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> Glenn,
>
> Shift of subject.one thing that I really need to do is to check how far we
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1516. RE: [ntms-hsmm] Re: Frequency Usage

Yahoo group: DAWG-HSMM
Date: 2009-09-14 12:56:58 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1474 Message: 1516

Steve,

Your experience is encouraging. I'm worried, though, because I detected 100+ APs on a route that probably had more APs that what I detected.

The density is probably 10 times what you experienced. The only way to know is to try it and then we'll know!

:-)

Maybe next weekend!

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of s_ahlbom
Sent: Monday, September 14, 2009 12:44 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Frequency Usage

I have routinely made 8-10 mile connections from residential neighborhoods with 20+ AP's showing up, using the same antenna (at 20') and 400 mw power you mentioned. Our HSMM AP was up 300' on a tower and just barely "line of sight" through the trees using a 14 dB gain slotted waveguide omni antenna and 400 mw.

At my home I set up three typical consumer AP's in about a 50' radius around my HSMM dish at 20' and connected to another of our HSMM nodes about 6 miles away. I could only see a very slight decrease in data throughput when the three local AP's were turned on and streaming data, which really surpised me. The distant AP was only about "40%" signal strength on channel 3 on the Engenius ECB-8610, while the local AP's were "90%" on Channels 1 and 6.

This was on the W3EOC digital network in SE PA. I have since moved to NC ... and really miss the HSMM capability we had.

Steve, W3AHL

--- In ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com, "J. Gordon Beattie, Jr., W2TTT" <w2ttt@...> wrote:
>
> Glenn,

>
> Shift of subject.one thing that I really need to do is to check how far we
> can really go on 2.4 WiFi these days.
>
> Several years ago, we could go almost a mile with directional antennas and
> 18db/500mW bi-directional amplifiers.
>
>
>
> Now, I think going several hundred feet is going to be an issue at 2.4
> because of the number of systems in our area.
>
> I did a simple one mile ride from home to church and found 100+ WiFi
access
> points in addition to the very strong "public" access point operated on
our
> main street by the local cable company. I'll need to check on the channel
> distribution of all these sites to see if this can be managed through
> channel selection.
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> We'll see!
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> Thanks & 73,
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http://www.eset.com

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http://www.eset.com

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1517. Re: Frequency Usage

Yahoo group: DAWG-HSMM
Date: 2009-09-14 13:52:32 UTC
From: s_ahlbom
Topic: 1474 Message: 1517

Interference certainly could be an issue. Sometimes you just can't make the link! Due to our local terrain, we almost always had to use relay stations at a high spot, to get the signal down where it was needed. We often mixed D-STAR 1.2 GHz DD mode, 900 MHz Avalans and 2.4 GHz at the relay stations.

H polarized antennas do help reduce interference, unless there are strong first-order reflections off of metal structures from the local AP's (which "tend" to use V Pol.)

Higher gain 24dB dishes help reduce the local interference, but keeping them aimed when using portable masts is a challenge.

I found that changing the height of the antenna by just a few feet (up or down) will often make the difference between a solid and marginal link. Fifteen feet is usually the minimum height for more than a few miles. Above 25' the mast is too wobbly, unless guyed.

Accurate vertical elevation aiming of the dish causes many problems for newbies. And it is important to make sure your center feed is still in the center. I marked an X in the center of the feed housing and measured from the four corner of the dish to the X to verify it is still reasonably close. Mesh dishes can suffer all sorts of torture when getting hauled around and need frequent "squaring up".

Steve, W3AHL

--- In ntms-hsmm@yahoogroups.com, "J. Gordon Beattie, Jr., W2TTT" <w2ttt@...> wrote:
>
> Steve,
>
> Your experience is encouraging. I'm worried, though, because I detected
> 100+ APs on a route that probably had more APs that what I detected.
>
> The density is probably 10 times what you experienced. The only way to know
> is to try it and then we'll know!
>
> :-)
>
> Maybe next weekend!
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> Thanks & 73,
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> 201.314.6964
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> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
> Of s_ahlbom
> Sent: Monday, September 14, 2009 12:44 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Re: Frequency Usage
>
>
>
>
>
> I have routinely made 8-10 mile connections from residential neighborhoods
> with 20+ AP's showing up, using the same antenna (at 20') and 400 mw power
> you mentioned. Our HSMM AP was up 300' on a tower and just barely "line of
> sight" through the trees using a 14 dB gain slotted waveguide omni antenna
> and 400 mw.
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> At my home I set up three typical consumer AP's in about a 50' radius around
> my HSMM dish at 20' and connected to another of our HSMM nodes about 6 miles
> away. I could only see a very slight decrease in data throughput when the
> three local AP's were turned on and streaming data, which really surpised
> me. The distant AP was only about "40%" signal strength on channel 3 on the
> Engenius ECB-8610, while the local AP's were "90%" on Channels 1 and 6.
>
> This was on the W3EOC digital network in SE PA. I have since moved to NC ...
> and really miss the HSMM capability we had.
>
> Steve, W3AHL
>
> --- In ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com, "J.
> Gordon Beattie, Jr., W2TTT" <w2ttt@> wrote:
> >
> > Glenn,
> >
> > Shift of subject.one thing that I really need to do is to check how far we
> > can really go on 2.4 WiFi these days.
> >
> > Several years ago, we could go almost a mile with directional antennas and
> > 18db/500mW bi-directional amplifiers.
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> > Now, I think going several hundred feet is going to be an issue at 2.4
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1518. Re: ISO 6523 Naming for Networks, Services and Applications

Yahoo group: DAWG-HSMM
Date: 2009-09-14 15:37:14 UTC
From: whwallacemo1
Topic: 1474 Message: 1518

I want to suggest to our ARES group that we look into several HSMM "client" subsystems (AP's) and several "Relay" subsystems, each built by an individual member. I am leaning towards 3 or 5 GHz, but that is unimportant. Upon need we would deploy those to set positions depending on the needs of the served agency, but preplanned points for each agency. For example, If Agency X calls for support, we would deploy to preplanned map/building rooftops, etc. locations for the "Client" subsystems and preplanned map locations for the "Relay" subsystems to make the circuit. Hopefully all tested and exercised before hand.

Does anyone have any ideas of is it important to have naming conventions for subsystems at this level or should be just go with our call signs for each subsystem. What problems am I going to run into with this network topographical philosophy?

Any help, suggestions, criticism, would be appreciated, as I am still learning.

Bill Wallace KC0TGY

1519. RE: [ntms-hsmm] Re: Frequency Usage

Yahoo group: DAWG-HSMM
Date: 2009-09-14 15:50:42 UTC
From: Kipton Moravec
Topic: 1474 Message: 1519

I would try it. What you detect driving around and what you see at the two locations are different animals.

In Austin, Glenn has a link that crosses the University of Texas Campus. UT probably has the densest configuration of WiFi on every channel you could see but because they are indoors, and have the standard antennas, and are a couple of miles from either link, it is not a problem.

Kip

On Mon, 2009-09-14 at 12:56 +0000, J. Gordon Beattie, Jr., W2TTT wrote:
> Steve,
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> Your experience is encouraging. I'm worried, though, because I detected
> 100+ APs on a route that probably had more APs that what I detected.
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> Of s_ahlbom
> Sent: Monday, September 14, 2009 12:44 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Re: Frequency Usage
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> and really miss the HSMM capability we had.
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> Steve, W3AHL
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> --- In ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com, "J.
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> > Thanks & 73,
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> > Gordon Beattie, W2TTT
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> Yahoo! Groups Links
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Kipton Moravec AE5IB .- . ... -...
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Four Way Test
Is it the Truth?
Is it Fair to all concerned?
Will it build Goodwill and Better Friendships?
Will it be Beneficial to all concerned?
- Herbert J Taylor (1932)

1520. Re: [ntms-hsmm] Frequency Usage

Yahoo group: DAWG-HSMM
Date: 2009-09-14 16:16:18 UTC
From: Glenn Currie
Topic: 1474 Message: 1520

From good locations in the Austin area (good line of sight with clear Fresnel zone) we can, at will, make solid connections simply using 24dB BBQ grill dish antennas on otherwise unaltered Linksys routers.

In a relatively RF quiet area, AD5OO has demonstrated that our mesh nodes (no amps) linked at over 7 miles with 11dB omni antennas.

BDAs have only proven useful in overcoming long feed line loss, in our experience. I am sure there are a few other special cases where they would come in handy.

So please help spread the word that slapping a BDA on these radios is usually not needed and is not useful. You simply add to the spectrum pollution.

Our testing of the WRT54G routers over downtown Austin included shooting over the heavily student populated area of the west U.T. campus area where we shot through / over THOUSANDS of 802.11 wireless devices in addition to countless microwave ovens. Absolutely no problem at all with the right gear. You either have a good path or you do not so getting good feel for spread spectrum microwave propagation is an important education issue.

The microwave RF physics has not changed just because we have gone digital. We can survive more noise with the new digital systems and recover from errors better than we could in the past.

We have done field testing for about 8 years now. I personally own a microwave relay van with a 41' pneumatic mast so testing is pretty quick and easy. You only need a hint of a signal, a few dB above the noise floor to make a link.. It is always nice to have a bit of margin, but if you need more than 1/2 watt for most links you need to find a better path or temporarily run enough power to burn a hole in what is in the path to create LOS ;-).

Check the noise floor with your two directional antennas staring down each others throat before running more power. So far, our longest link with completely unaltered WRT54 routers with just good antennas is just a bit over 15 miles. At this distance the digital ACK timeout counters start trying to resend the packets at times as they expected the Time Of Flight across the house to be less than that of a 30 mile round trip delay.

For a real mesh you want omni antennas and lots of nodes, but again you keep the power low. So for both point to point and mesh "illumination" of an area, power is almost never the answer.

Check your signal strength with a path study.

I have seen data being passed with 12 Access Points on the same channel in an apartment complex in the west U.T. campus area. There were lots of collisions and re-sends, but none of the users seemed to have noticed as their effective

throughput was fine.

We can usually EASILY operate in the shared ISM band with millions of 802.11 devices in the world. You just have to get out and do some field work and see how profoundly noise immune these systems are.

The great success of these systems being used by people that usually know noting about RF is due to the fact that the systems are so profoundly robust. Otherwise clueless users would always be taking the gear back and asking for the money back. So that non RF savvy users get such profoundly dependable service out of the systems it quite telling.

We have not changed the laws of physics. There are situations where you can get interference that is not easy to work around, but in 8 years of field work, I have NEVER found a place were I could not put my signal where I wanted it, with a bit of work and proper antennas, VERY carefully aimed.

-Glenn
kd5mfw@...

--- On Mon, 9/14/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...> wrote:

From: J. Gordon Beattie, Jr., W2TTT <w2ttt@...>
Subject: [ntms-hsmm] Frequency Usage
To: ntms-hsmm@yahoogroups.com
Date: Monday, September 14, 2009, 1:54 AM

Glenn,

Shift of subject.one thing that I really need to do is to check how far we

can really go on 2.4 WiFi these days.

Several years ago, we could go almost a mile with directional antennas and

18db/500mW bi-directional amplifiers.

Now, I think going several hundred feet is going to be an issue at 2.4

because of the number of systems in our area.

I did a simple one mile ride from home to church and found 100+ WiFi access

points in addition to the very strong "public" access point operated on our

main street by the local cable company. I'll need to check on the channel

distribution of all these sites to see if this can be managed through

channel selection.

We'll see!

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

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1521. Re: [ntms-hsmm] Re: ISO 6523 Naming for Networks, Services and Applications

Yahoo group: DAWG-HSMM
Date: 2009-09-14 16:29:35 UTC
From: Glenn Currie
Topic: 1474 Message: 1521

All good questions.

We went to a tremendous effort to expand the address space in our release 3 firmware for HSMM-MESH. You call sign gets burned into the mesh node when as part of the HSMM-MESH firmware load so IT is automatic.

With HSMM-MESH no further naming conventions are needed. You turn the systems on, aim the antennas and they will be passing data within 5 seconds of coming into RF range, with no other user intervention due to the OLSR firmware we have added.

You have the same basic idea we have for supporting served agencies.

Once you have a basic link point to point for an agency, you may wish to hang a Part-15 AP off the back of one of the mesh nodes, turn on WEP to keep unauthorized users out, but at that point the served agency will see a standard access point.

You are obligated to monitor the traffic to make sure it meets FCC rules and regs, but most traffic generated by served agencies would seldom ever have any questionable content, and you are done.

Our HSMM-MESH firmware is free. You load it instead of loading an update for the Linksys firmware.

There are other workable ways to run Part-97 with the wireless routers, HSMM-MESH is just something I have been working on for 8 years, so it is what we use here in Austin. The Dallas / Plano area HSMM group has a lot of field work under their belt and they seem to like the addition of our mesh capability and have been a big help in furthering its development. But to be clear, there are other ways to do these links but then you have to sort out all the questions you asked, and HSMM-MESH just takes care of them, if I understood your questions and application, correctly.

-Glenn
KD5MFW

--- On Mon, 9/14/09, whwallacemo1 <bill@...> wrote:

From: whwallacemo1 <bill@findmarian-bill.info>
Subject: [ntms-hsmm] Re: ISO 6523 Naming for Networks, Services and Applications
To: ntms-hsmm@yahoogroups.com
Date: Monday, September 14, 2009, 10:37 AM

I want to suggest to our ARES group that we look into several HSMM "client" subsystems (AP's) and several "Relay" subsystems, each built by an individual member. I am leaning towards 3 or 5 GHz, but that is unimportant. Upon need we would deploy those to set positions depending on the needs of the served agency, but preplanned points for each agency. For example, If Agency X calls for support, we would deploy to preplanned

map/building rooftops, etc. locations for the "Client" subsystems and preplanned map locations for the "Relay" subsystems to make the circuit. Hopefully all tested and exercised before hand.

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Any help, suggestions, criticism, would be appreciated, as I am still learning.

Bill Wallace KC0TGY

[Non-text portions of this message have been removed]

1522. RE: [ntms-hsmm] Re: Frequency Usage

Yahoo group: DAWG-HSMM
Date: 2009-09-14 16:38:23 UTC
From: Glenn Currie
Topic: 1474 Message: 1522

Quite right.

In one of my presentations I did some "war driving" for the U.T. area
we were shooting across and during the presentation one of the hams
said, "look at that, they are thicker than flees!". Yes and the point was
exactly what Kip pointed out. Due to the relative signal strength, the
10 mile shot across the area was a piece of cake, that required only the
time to set up the gear and aim the antennas.

Please help spread the word. Yes there are MILLIONS of the Wi-Fi devices
out there and most if not all of them are potential ham radios. The are cheap.
The lack of inteference is by design and pretty non intuitive, but works like
gang busters.

We can work right in the shared ISM band with good RF knowledge and seldom
using amps and do all we need to do.

It took me a while to believe it, but the field results are quite consistent, and we
are now getting in more field reports that support the claims. This is the deal
of a lifetime for hams. Jump in and give it a try! The more of you out there, on
the air, the more fun it is!

-Glenn
kd5mfw@...

--- On Mon, 9/14/09, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...m>
Subject: RE: [ntms-hsmm] Re: Frequency Usage
To: ntms-hsmm@yahoogroups.com
Date: Monday, September 14, 2009, 10:50 AM

I would try it. What you detect driving around and what you see at the

two locations are different animals.

In Austin, Glenn has a link that crosses the University of Texas Campus.

UT probably has the densest configuration of WiFi on every channel you

could see but because they are indoors, and have the standard antennas,

and are a couple of miles from either link, it is not a problem.

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On Mon, 2009-09-14 at 12:56 +0000, J. Gordon Beattie, Jr., W2TTT wrote:

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> From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com] On Behalf

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> To: ntms-hsmm@yahoogrou ps.com

> Subject: [ntms-hsmm] Re: Frequency Usage

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> > can really go on 2.4 WiFi these days.

> >

> > Several years ago, we could go almost a mile with directional antennas and

> > 18db/500mW bi-directional amplifiers.

> >

> >

> >

> > Now, I think going several hundred feet is going to be an issue at 2..4

> > because of the number of systems in our area.

> >

> > I did a simple one mile ride from home to church and found 100+ WiFi

> access

> > points in addition to the very strong "public" access point operated on

> our

> > main street by the local cable company. I'll need to check on the channel

> > distribution of all these sites to see if this can be managed through

> > channel selection.

> >

> > We'll see!

> >

> >

> >

> > Thanks & 73,

> >

> > Gordon Beattie, W2TTT

> >

> > 201.314.6964

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> >

> > _____ Information from ESET Smart Security, version of virus

> signature

> > database 4422 (20090913) _____

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> > The message was checked by ESET Smart Security.

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> >

> > http://www.eset. <http://www.eset. com> com

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> > _____ Information from ESET Smart Security, version of virus

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> > http://www.eset. <http://www.eset. com> com

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> > [Non-text portions of this message have been removed]

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> _____ Information from ESET Smart Security, version of virus signature

> database 4423 (20090914) _____

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> http://www.eset. com

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> [Non-text portions of this message have been removed]

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> Yahoo! Groups Links

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Kipton Moravec AE5IB .- . ... -...

========== ========= ========= ========= =======

Four Way Test

Is it the Truth?

Is it Fair to all concerned?

Will it build Goodwill and Better Friendships?

Will it be Beneficial to all concerned?

- Herbert J Taylor (1932)

[Non-text portions of this message have been removed]

1523. OLSR Question.

Yahoo group: DAWG-HSMM
Date: 2009-09-14 18:20:11 UTC
From: Ron Cole
Topic: 1474 Message: 1523

In the Austin case are you running straight OLSR RFC-3626 or has it been modified somehow?

Ron
n5hyh

--- On Mon, 9/14/09, Glenn Currie <kd5mfw_7@yahoo.com> wrote:

> From: Glenn Currie <kd5mfw_7@...>
> Subject: RE: [ntms-hsmm] Re: Frequency Usage
> To: ntms-hsmm@yahoogroups.com
> Date: Monday, September 14, 2009, 11:38 AM
> Quite right.
>
> In one of my presentations I did some "war driving" for the
> U.T. area
> we were shooting across and during the presentation one of
> the hams
> said, "look at that, they are thicker than flees!". Yes
> and the point was
> exactly what Kip pointed out. Due to the relative signal
> strength, the
> 10 mile shot across the area was a piece of cake, that
> required only the
> time to set up the gear and aim the antennas.
>
> Please help spread the word. Yes there are MILLIONS of
> the Wi-Fi devices
> out there and most if not all of them are potential ham
> radios. The are cheap.
> The lack of inteference is by design and pretty non
> intuitive, but works like
> gang busters.
>
> We can work right in the shared ISM band with good RF
> knowledge and seldom
> using amps and do all we need to do.
>
> It took me a while to believe it, but the field results are
> quite consistent, and we
> are now getting in more field reports that support the
> claims. This is the deal
> of a lifetime for hams. Jump in and give it a try! The
> more of you out there, on
> the air, the more fun it is!
>
> -Glenn

> kd5mfw@arrl.net
>
> --- On Mon, 9/14/09, Kipton Moravec <kip@...>
> wrote:
>
> From: Kipton Moravec <kip@...>
> Subject: RE: [ntms-hsmm] Re: Frequency Usage
> To: ntms-hsmm@yahoogroups.com
> Date: Monday, September 14, 2009, 10:50 AM
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> I would try it. What you detect driving around and
> what you see at the
>
> two locations are different animals.
>
>
>
> In Austin, Glenn has a link that crosses the University of
> Texas Campus.
>
> UT probably has the densest configuration of WiFi on every
> channel you
>
> could see but because they are indoors, and have the
> standard antennas,
>
> and are a couple of miles from either link, it is not a
> problem.
>
>
>
> Kip
>
>
>
> On Mon, 2009-09-14 at 12:56 +0000, J. Gordon Beattie, Jr.,
> W2TTT wrote:
>

> > Steve,
>
> >
>
> > Your experience is encouraging. I'm worried,
> though, because I detected
>
> > 100+ APs on a route that probably had more APs that
> what I detected.
>
> >
>
> > The density is probably 10 times what you
> experienced. The only way to know
>
> > is to try it and then we'll know!
>
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>
> > :-)
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> >
>
> > Maybe next weekend!
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> >
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>
> > Thanks & 73,
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> >
>
> > Gordon Beattie, W2TTT
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> > 201.314.6964
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> > From: ntms-hsmm@yahoogrou ps.com
> [mailto:ntms-hsmm@yahoogrou ps.com] On Behalf
>
> > Of s_ahlbom
>
> > Sent: Monday, September 14, 2009 12:44 PM
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> > To: ntms-hsmm@yahoogrou ps.com
>
> > Subject: [ntms-hsmm] Re: Frequency Usage
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>
> > I have routinely made 8-10 mile connections from
> residential neighborhoods
>
> > with 20+ AP's showing up, using the same antenna (at
> 20') and 400 mw power
>
> > you mentioned. Our HSMM AP was up 300' on a tower and
> just barely "line of
>
> > sight" through the trees using a 14 dB gain slotted
> waveguide omni antenna
>
> > and 400 mw.
>
> >
>
> > At my home I set up three typical consumer AP's in
> about a 50' radius around
>
> > my HSMM dish at 20' and connected to another of our
> HSMM nodes about 6 miles
>
> > away. I could only see a very slight decrease in data
> throughput when the
>
> > three local AP's were turned on and streaming data,
> which really surpised
>

> > me. The distant AP was only about "40%" signal
> strength on channel 3 on the
>
> > Engenius ECB-8610, while the local AP's were "90%" on
> Channels 1 and 6..
>
> >
>
> > This was on the W3EOC digital network in SE PA. I have
> since moved to NC ...
>
> > and really miss the HSMM capability we had.
>
> >
>
> > Steve, W3AHL
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> >
>
> > --- In ntms-hsmm@yahoogrou <mailto:ntms-
> hsmm%40yahoogrou ps.com> ps.com, "J.
>
> > Gordon Beattie, Jr., W2TTT" <w2ttt@...> wrote:
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> > >
>
> > > Glenn,
>
> > >
>
> > > Shift of subject.one thing that I really need to
> do is to check how far we
>
> > > can really go on 2.4 WiFi these days.
>
> > >
>
> > > Several years ago, we could go almost a mile with
> directional antennas and
>
> > > 18db/500mW bi-directional amplifiers.
>
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>
> > > Now, I think going several hundred feet is going
> to be an issue at 2..4

>
> > > because of the number of systems in our area.
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> > >
>
> > > I did a simple one mile ride from home to church
> and found 100+ WiFi
>
> > access
>
> > > points in addition to the very strong "public"
> access point operated on
>
> > our
>
> > > main street by the local cable company. I'll need
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>
> > > distribution of all these sites to see if this
> can be managed through
>
> > > channel selection.
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> > > We'll see!
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> > > Thanks & 73,
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> > >
>
> > > Gordon Beattie, W2TTT
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> > > 201.314.6964
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> > > _____ Information from ESET Smart Security,
> version of virus
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> > signature
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> > > database 4422 (20090913) _____
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> > > The message was checked by ESET Smart Security.
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> > > http://www.eset. <http://www.eset. com> com
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> version of virus
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> > > database 4422 (20090913) _____
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> > > http://www.eset. <http://www.eset. com> com
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> > _____ Information from ESET Smart Security,
> version of virus signature
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> > database 4423 (20090914) _____
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> > Yahoo! Groups Links
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> Kipton Moravec AE5IB .- . ... -...
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> Four Way Test
>
> Is it the Truth?
>
> Is it Fair to all concerned?
>
> Will it build Goodwill and Better Friendships?
>
> Will it be Beneficial to all concerned?
>
> - Herbert J Taylor (1932)
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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>   mailto:ntms-hsmm-fullfeatured@yahoogroups.com
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1524. RE: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

Yahoo group: DAWG-HSMM
Date: 2009-09-14 19:06:16 UTC
From: Dave
Topic: 1474 Message: 1524

I run UI-View with InfoKiosk and was thinking it be of great value to HSMM effort if we could do an add-on app that showed HSMM/mesh network as part of the map? That way we could overlay an existing APRS status display with HSMM info without having to use an APRS transmitted at each antenna location. An image editor allowing an object to be created without having a transmitter...

It would be a very minor issue to add an HSMM icon to UI-View icon text file, and maybe just as simple to be able to add a fixed point to a map (because HSMM may *eventually* have an APRS identifier with it, but won't unless we add another level of tech to it). It could be that a full-time internet link would be able to upload the position.

Maybe someone who programs can understand how to change the UI-View icon data to show an HSMM station that can be fixed to a map? Seems simple enough.... new icon/text files are being created as they are needed. We need an icon in APRS.

Dave
/++++++++++++++++++++++++++++++++/

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Glenn Currie
Sent: Sunday, September 13, 2009 11:46 PM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

Yes,

For a variety of reasons, having ways to be more cleaver about how to traverse
an enormous address's space will pay dividends in better response.

We are looking at ways to make the best use of APRS messaging, and possibly add messages for mesh status.

There was an article in QEX a while back by Mitchell where he showed how he had integrated a wide variety of digital ham modes.

As for D-STAR, EchoLInk etc. we need to do our best to blend them together. Recently Bob, B. the inventor of APRS proposed a universal text message scheme
for ham radio. I am still pondering the implications.

I am interested in fast smart routing so when we can use our fixed and mobile mesh
nodes in a store and forward way to pass data, we have an efficient system. Some
sort of tagging could bypass a brute dumb, brute force method of linking.

Lots to think about, thanks for pointing out the previous efforts in this area.

We hams (at least some of us) really get on all the different government agencies to
work out better interoperability. We have plenty of our own interoperability within
ham modes to keep us busy for quite a while.

If the data / message every goes through a server, we should have some way to
cross link it to whatever other modes make sense. Sending live video as short APRS
messages just does not sound like a good idea just due to bandwidth considerations,
but many of the major digital modes remain "islands" in a digital sea and we should
do what we can to cross link them, and some sort of tagging system at a higher
level than IP could be used to sort it out.

Lots to think about.

-Glenn

--- On Sun, 9/13/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...
<mailto:w2ttt%40att.net> > wrote:

From: J. Gordon Beattie, Jr., W2TTT <w2ttt@... <mailto:w2ttt%40att.net>
>
Subject: RE: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications
To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
Date: Sunday, September 13, 2009, 10:43 PM

Glenn,

IPv6 is the right answer, but I was thinking, as you hinted, that we may

want to consider it for what rides above it, so that we don't need to

resolve IPv6 addresses associated with specific applications and services

manually.

We might consider integrating the interoperability controls into the naming

at gateways for instance, and knowing the application name and domain in

which it rests may be useful. For example, even when there is no radio

involved, Echolink wants validated users or service points, so if we

parceled out a service name that implied Echolink, then it would be able to

autonomously determine who gets naming space in their world while also

enabling those who are so "blessed" to seamlessly integrate their systems.

So (heresy to follow) if we wanted to allow Echolink to IRLP to DSTAR

integrated networks or integrate any of those with other networks or

application services, we would have a way to indicate to our edge gateways

(application or service and not necessarily network gateways) how to carry

the transaction or other communication.

Read on and we can discuss it some more when we all have had some time to

brainstorm a bit.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com] On
Behalf

Of Glenn Currie

Sent: Monday, September 14, 2009 3:19 AM

To: ntms-hsmm@yahoogrou ps.com

Subject: Re: [ntms-hsmm] ISO 6523 Naming for Networks, Services and

Applications

Lots of new stuff to consider as new horizons open up.

Most of the world is going to IPv6 - eventually. But there is an almost

infinite

number of things you can layer on top of it.

Thanks for the pointer I have down loaded it and will check it out. There

is

a lot of stuff form the old TexNet packet system that we still discuss as

well.

-Glenn

kd5mfw@arrl. <mailto:kd5mfw% 40arrl.net> net

--- On Sun, 9/13/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...
<mailto:w2ttt%40att.net>

<mailto:w2ttt% 40att.net> > wrote:

From: J. Gordon Beattie, Jr., W2TTT <w2ttt@... <mailto:w2ttt%40att.net>
<mailto:w2ttt% 40att.net>

>

Subject: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

To: ntms-hsmm@yahoogrou <mailto:ntms- hsmm%40yahoogrou ps.com> ps.com

Date: Sunday, September 13, 2009, 8:24 PM

Hi Folks!

Here is an idea that may be useful for structuring network element and

service or application identifiers for Amateur Radio.

Years ago, this was something that was cooked up to get us past the IP

address space and broaden the naming conventions that we might choose to use

within Amateur Radio. It was always thought that the old "protocol wars" of

Amateur Packet Radio needed to be transcended and this was an intellectual

product that may be useful in a broader context. With HSMM introducing

notions of Hinternet and Internet interoperability, we might want to take a

look at this coding scheme for our HSM networks, services and applications.

Check out Code "0011" in the ISO 6523 document and perhaps we could start a

dialogue on that either here or elsewhere.

http://www.cyber- identity. com/download/ ICD-list. pdf

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

_____ Information from ESET Smart Security, version of virus signature

database 4422 (20090913) _____

The message was checked by ESET Smart Security.

http://www.eset. com

_____ Information from ESET Smart Security, version of virus signature

database 4422 (20090913) _____

The message was checked by ESET Smart Security.

http://www.eset. com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

_____ Information from ESET Smart Security, version of virus signature

database 4422 (20090913) _____

The message was checked by ESET Smart Security.

http://www.eset. com

_____ Information from ESET Smart Security, version of virus signature

database 4422 (20090913) _____

The message was checked by ESET Smart Security.

http://www.eset. com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.95/2368 - Release Date: 09/13/09 17:50:00

[Non-text portions of this message have been removed]

1525. Re: [ntms-hsmm] OLSR Question.

Yahoo group: DAWG-HSMM
Date: 2009-09-14 18:49:21 UTC
From: icra@galaxynet.com
Topic: 1474 Message: 1525

WIFI RF 'clutter' is not the issue around here...weather and trees are our problems

We have a huge problem every time we get some precipitation...and we get a lot. Does not even need to be heavy, just a little mist or fog will cut a link.

With 100 foot tall fir trees all over the place, getting a clear LOS is very hard....and never
were you need

Slowly (very slowly) learning about this stuff and hope to get at least one or two others to play
with it to figure out what we can do with it around here

Mel
N7OKL
Oak Harbor, WA

1526. Re: OLSR Question.

Yahoo group: DAWG-HSMM
Date: 2009-09-14 23:21:42 UTC
From: whwallacemo1
Topic: 1474 Message: 1526

Mel: At least you have mountains for some height. We are nicely rolling here with 100ft oak trees all over he place and no hill without an equally deep draw on both sides of it, then another hill, all covered in oak trees. LOS? What is that? :-) We don't have that here either. (Yes, before you jump on me that was a joke!! I know what Line of Sight is)
I am in the same level as you. Trying to get on board and figure out how to exploit the technology without reinventing the expensive wheel.

Bill Wallace KC0TGY
St. Louis, Missouri
A show me guy....

"Any intelligent man can make things bigger, more complex,and more violent, it takes a genius and a lot of courage to move in the opposite direction" Albert Einstein.

1527. Re: OLSR Question.

Yahoo group: DAWG-HSMM
Date: 2009-09-14 23:21:41 UTC
From: whwallacemo1
Topic: 1474 Message: 1527

Mel: At least you have mountains for some height. We are nicely rolling here with 100ft oak trees all over he place and no hill without an equally deep draw on both sides of it, then another hill, all covered in oak trees. LOS? What is that? :-) We don't have that here either. (Yes, before you jump on me that was a joke!! I know what Line of Sight is)
I am in the same level as you. Trying to get on board and figure out how to exploit the technology without reinventing the expensive wheel.

Bill Wallace KC0TGY
St. Louis, Missouri
A show me guy....

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1528. Re: [ntms-hsmm] OLSR Question.

Yahoo group: DAWG-HSMM
Date: 2009-09-15 00:07:15 UTC
From: Glenn Currie
Topic: 1474 Message: 1528

We are running the OLSR plug in code written for open-wrt firmware for
the WRT54G as part of the masters thesis of Andreas Tonnensen.

<http://www.olsr.org/?q=background>

Andreas looked at all the 3 rd party firmware platforms and found the design done
by the open-wrt to be prefferable for his use for several reasons, such as the plug
in feature. That is why we went with open-wrt - no need to reinvent the wheel - too
much other value added ham radio stuff needed.

We have experimented with various releases of the OLSR code as they come out,
but it would take a long time to describe all the types of testing we have done.

We will move to later versions of OLSR, if they are helpful in our view, in later
releases of HSMM-MESH firmware.

But we have made many other changes as well, not just adding OLSR so answering
your specific OLSR question may not actually answer all your questions.

-Glenn

--- On Mon, 9/14/09, Ron Cole <rdcole@...> wrote:

From: Ron Cole <rdcole@...>
Subject: [ntms-hsmm] OLSR Question.
To: ntms-hsmm@yahoogroups.com
Date: Monday, September 14, 2009, 1:20 PM

In the Austin case are you running straight OLSR RFC-3626 or has it been modified somehow?

Ron

n5hyh

--- On Mon, 9/14/09, Glenn Currie <kd5mfw_7@yahoo. com> wrote:

> From: Glenn Currie <kd5mfw_7@yahoo. com>

> Subject: RE: [ntms-hsmm] Re: Frequency Usage

> To: ntms-hsmm@yahoogrou ps.com

> Date: Monday, September 14, 2009, 11:38 AM

> Quite right.

>

> In one of my presentations I did some "war driving" for the

> U.T. area

> we were shooting across and during the presentation one of

> the hams

> said, "look at that, they are thicker than flees!". Yes

> and the point was

> exactly what Kip pointed out. Due to the relative signal

> strength, the

> 10 mile shot across the area was a piece of cake, that

> required only the

> time to set up the gear and aim the antennas.

>

> Please help spread the word. Yes there are MILLIONS of

> the Wi-Fi devices

> out there and most if not all of them are potential ham

> radios. The are cheap.

> The lack of inteference is by design and pretty non

> intuitive, but works like

> gang busters.

>

> We can work right in the shared ISM band with good RF

> knowledge and seldom

> using amps and do all we need to do.

>

> It took me a while to believe it, but the field results are

> quite consistent, and we

> are now getting in more field reports that support the

> claims. This is the deal

> of a lifetime for hams. Jump in and give it a try! The

> more of you out there, on

> the air, the more fun it is!

>

> -Glenn

> kd5mfw@arrl. net

>

> --- On Mon, 9/14/09, Kipton Moravec <kip@...>

> wrote:

>

> From: Kipton Moravec <kip@...>

> Subject: RE: [ntms-hsmm] Re: Frequency Usage

> To: ntms-hsmm@yahoogrou ps.com

> Date: Monday, September 14, 2009, 10:50 AM

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> I would try it. What you detect driving around and

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>

> two locations are different animals.

>

>

>

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> Texas Campus.

>

> UT probably has the densest configuration of WiFi on every

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>

> and are a couple of miles from either link, it is not a

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>

>

>

> Kip

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>

> On Mon, 2009-09-14 at 12:56 +0000, J. Gordon Beattie, Jr.,

> W2TTT wrote:

>

> > Steve,

>

> >

>

> > Your experience is encouraging. I'm worried,

> though, because I detected

>

> > 100+ APs on a route that probably had more APs that

> what I detected.

>

> >

>

> > The density is probably 10 times what you

> experienced. The only way to know

>

> > is to try it and then we'll know!

>

> >

>

> > :-)

>

> >

>

> > Maybe next weekend!

>

> >

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> >

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> >

>

> > Thanks & 73,

>

> >

>

> > Gordon Beattie, W2TTT

>

> >

>

> > 201.314.6964

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>

> > From: ntms-hsmm@yahoogrou ps.com

> [mailto:ntms- hsmm@yahoogrou ps.com] On Behalf

>

> > Of s_ahlbom

>

> > Sent: Monday, September 14, 2009 12:44 PM

>

> > To: ntms-hsmm@yahoogrou ps.com

>

> > Subject: [ntms-hsmm] Re: Frequency Usage

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>

> > I have routinely made 8-10 mile connections from

> residential neighborhoods

>

> > with 20+ AP's showing up, using the same antenna (at

> 20') and 400 mw power

>

> > you mentioned. Our HSMM AP was up 300' on a tower and

> just barely "line of

>

> > sight" through the trees using a 14 dB gain slotted

> waveguide omni antenna

>

> > and 400 mw.

>

> >

>

> > At my home I set up three typical consumer AP's in

> about a 50' radius around

>

> > my HSMM dish at 20' and connected to another of our

> HSMM nodes about 6 miles

>

> > away. I could only see a very slight decrease in data

> throughput when the

>

> > three local AP's were turned on and streaming data,

> which really surpised

>

> > me. The distant AP was only about "40%" signal

> strength on channel 3 on the

>

> > Engenius ECB-8610, while the local AP's were "90%" on

> Channels 1 and 6..

>

> >

>

> > This was on the W3EOC digital network in SE PA. I have

> since moved to NC ...

>

> > and really miss the HSMM capability we had.

>

> >

>

> > Steve, W3AHL

>

> >

>

> > --- In ntms-hsmm@yahoogrou <mailto:ntms-

> hsmm%40yahoogrou ps.com> ps.com, "J.

>

> > Gordon Beattie, Jr., W2TTT" <w2ttt@...> wrote:

>

> > >

>

> > > Glenn,

>

> > >

>

> > > Shift of subject.one thing that I really need to

> do is to check how far we

>

> > > can really go on 2.4 WiFi these days.

>

> > >

>

> > > Several years ago, we could go almost a mile with

> directional antennas and

>

> > > 18db/500mW bi-directional amplifiers.

>

> > >

>

> > >

>

> > >

>

> > > Now, I think going several hundred feet is going

> to be an issue at 2..4

>

> > > because of the number of systems in our area.

>

> > >

>

> > > I did a simple one mile ride from home to church

> and found 100+ WiFi

>

> > access

>

> > > points in addition to the very strong "public"

> access point operated on

>

> > our

>

> > > main street by the local cable company. I'll need

> to check on the channel

>

> > > distribution of all these sites to see if this

> can be managed through

>

> > > channel selection.

>

> > >

>

> > > We'll see!

>

> > >

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> > >

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> > >

>

> > > Thanks & 73,

>

> > >

>

> > > Gordon Beattie, W2TTT

>

> > >

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> > > 201.314.6964

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> > > _____ Information from ESET Smart Security,

> version of virus

>

> > signature

>

> > > database 4422 (20090913) _____

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> > >

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> > >

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> > > The message was checked by ESET Smart Security.

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> > >

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> > >

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> > > http://www.eset. <http://www.eset. com> com

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>

> > > _____ Information from ESET Smart Security,

> version of virus

>

> > signature

>

> > > database 4422 (20090913) _____

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>

> > > The message was checked by ESET Smart Security.

>

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> > > http://www.eset. <http://www.eset. com> com

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> > > [Non-text portions of this message have been

> removed]

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> > _____ Information from ESET Smart Security,

> version of virus signature

>

> > database 4423 (20090914) _____

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> > The message was checked by ESET Smart Security.

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> > http://www.eset. com

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> > _____ Information from ESET Smart Security,

> version of virus signature

>

> > database 4423 (20090914) _____

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> > The message was checked by ESET Smart Security.

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> > http://www.eset. com

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> > [Non-text portions of this message have been removed]

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> > Yahoo! Groups Links

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> Kipton Moravec AE5IB .- . ... -...

>

> ========== ========= ========= ========= =======

>

> Four Way Test

>

> Is it the Truth?

>

> Is it Fair to all concerned?

>

> Will it build Goodwill and Better Friendships?

>

> Will it be Beneficial to all concerned?

>

> - Herbert J Taylor (1932)

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> [Non-text portions of this message have been removed]

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> Yahoo! Groups Links

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> mailto:ntms-hsmm-fullfeatu red@yahoogroups. com

>

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>

[Non-text portions of this message have been removed]

1529. Re: [ntms-hsmm] OLSR Question.

Yahoo group: DAWG-HSMM
Date: 2009-09-15 00:25:25 UTC
From: Glenn Currie
Topic: 1474 Message: 1529

Thanks for the info. I used to help with commercial microwave links decades ago, carrying ABC network TV feeds from Corpus Christi, TX to Victoria TX, through 3 relays between the towns. We had a lot of problems, thus learned a lot. (if all is running well at a commercial station, nobody wants you to touch anything!)

The ground fog on the Texas coast is often go so thick you literally could not see your hand at arms leangth in the day or with a flashlight at night.
That would shut us down about
10:45 - 11:00 PM every summer evening. Many other stories of trying to keep a small, marginally profitable UHF TV station on the air with a 1954 UHF transmitter.

Microwave links are much cheaper now and the consumer stuff has tremendously more bandwidth than the old expensive RCA stuff we used when I was a high school kid with a night job at the TV station.

The microwave links need specific conditions for propagation.

One thing I am trying to promote is portable, mobile and drive by use.

With a good link you can transfer the entire ARRL handbook in PDF format in about 35 seconds, so you don't need to hold a link for long.

We have done some interesting testing with "drive by shootins" of data transfers.

Even at 60 mph you can maintain a link between a moving vehicle and a plastic ammo box with a mesh node in it for almost a minute, after popping over the top of a hill.

With a bit more work on the antennas and a server locked and loaded with data, you could blast short video clips, files and whole novel size books between a mobile unit an a fixed unit. The current OLSR firmware will auto link you in about 5 seconds automatically. This is in the firmware and working now.

So there is some interseting work you can tinker with even if long links are a problem.

The academics and military have been tinkering with this for years. Google Diesel Net and you will find some facinating work that could be done with our mesh nodes.

So many projects, so little time. ;-)

-Glenn

--- On Mon, 9/14/09, icra@... <icra@...> wrote:

From: icra@... <icra@...>
Subject: Re: [ntms-hsmm] OLSR Question.
To: ntms-hsmm@yahoogroups.com

Date: Monday, September 14, 2009, 1:49 PM

WIFI RF 'clutter' is not the issue around here...weather and trees are our problems

We have a huge problem every time we get some precipitation. ..and we get a lot. Does not

even need to be heavy, just a little mist or fog will cut a link.

With 100 foot tall fir trees all over the place, getting a clear LOS is very hard....and never

were you need

Slowly (very slowly) learning about this stuff and hope to get at least one or two others to play

with it to figure out what we can do with it around here

Mel

N7OKL

Oak Harbor, WA

[Non-text portions of this message have been removed]

1530. Re: [ntms-hsmm] OLSR Question.

Yahoo group: DAWG-HSMM
Date: 2009-09-15 00:32:19 UTC
From: Ron Cole
Topic: 1474 Message: 1530

Thanks Glen,

Thats exactley what I wanted to know.
From what I have read the Ubiquiti gear and be loaded with dd-WRT & OLSR.
It looks like another hardware path to explore.
I will let he group know more once I get something up and running.

Any one think about running a 44 subnet on these networks?

Ron
n5hyh.ampr.org

--- On Mon, 9/14/09, Glenn Currie <kd5mfw_7@yahoo.com> wrote:

> From: Glenn Currie <kd5mfw_7@...>
> Subject: Re: [ntms-hsmm] OLSR Question.
> To: ntms-hsmm@yahoogroups.com
> Date: Monday, September 14, 2009, 7:07 PM
> We are running the OLSR plug in code
> written for open-wrt firmware for
> the WRT54G as part of the masters thesis of Andreas
> Tonnensen.
>
> <http://www.olsr.org/?q=background>
>
> Andreas looked at all the 3 rd party firmware platforms and
> found the design done
> by the open-wrt to be prefferable for his use for several
> reasons, such as the plug
> in feature. That is why we went with open-wrt - no need
> to reinvent the wheel - too
> much other value added ham radio stuff needed.
>
> We have experimented with various releases of the OLSR code
> as they come out,
> but it would take a long time to describe all the types of
> testing we have done.
>
> We will move to later versions of OLSR, if they are helpful
> in our view, in later
> releases of HSMM-MESH firmware.
>
> But we have made many other changes as well, not just
> adding OLSR so answering
> your specific OLSR question may not actually answer all
> your questions.

>
> -Glenn
>
> --- On Mon, 9/14/09, Ron Cole <rdcole@...>
> wrote:
>
> From: Ron Cole <rdcole@...>
> Subject: [ntms-hsmm] OLSR Question.
> To: ntms-hsmm@yahoogroups.com
> Date: Monday, September 14, 2009, 1:20 PM
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>
> In the Austin case are you running straight OLSR
> RFC-3626 or has it been modified somehow?
>
>
>
> Ron
>
> n5hyh
>
>
>
> --- On Mon, 9/14/09, Glenn Currie <kd5mfw_7@yahoo.
> com> wrote:
>
>
>
> > From: Glenn Currie <kd5mfw_7@yahoo. com>
>
> > Subject: RE: [ntms-hsmm] Re: Frequency Usage
>
> > To: ntms-hsmm@yahoogrou ps.com
>
> > Date: Monday, September 14, 2009, 11:38 AM
>
> > Quite right.
>
> >

>
> > In one of my presentations I did some "war driving"
> for the
>
> > U.T. area
>
> > we were shooting across and during the presentation
> one of
>
> > the hams
>
> > said, "look at that, they are thicker than flees!".
> Yes
>
> > and the point was
>
> > exactly what Kip pointed out. Due to the relative
> signal
>
> > strength, the
>
> > 10 mile shot across the area was a piece of cake,
> that
>
> > required only the
>
> > time to set up the gear and aim the antennas.
>
> >
>
> > Please help spread the word. Yes there are MILLIONS
> of
>
> > the Wi-Fi devices
>
> > out there and most if not all of them are potential
> ham
>
> > radios. The are cheap.
>
> > The lack of inteference is by design and pretty non
>
> > intuitive, but works like
>
> > gang busters.
>
> >
>
> > We can work right in the shared ISM band with good RF
>

> > knowledge and seldom
>
> > using amps and do all we need to do.
>
> >
>
> > It took me a while to believe it, but the field
> results are
>
> > quite consistent, and we
>
> > are now getting in more field reports that support
> the
>
> > claims. This is the deal
>
> > of a lifetime for hams. Jump in and give it a try!
> The
>
> > more of you out there, on
>
> > the air, the more fun it is!
>
> >
>
> > -Glenn
>
> > kd5mfw@arrl. net
>
> >
>
> > --- On Mon, 9/14/09, Kipton Moravec <kip@...>
>
> > wrote:
>
> >
>
> > From: Kipton Moravec <kip@...>
>
> > Subject: RE: [ntms-hsmm] Re: Frequency Usage
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> > To: ntms-hsmm@yahoogrou ps.com
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> > Date: Monday, September 14, 2009, 10:50 AM
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> >   I would try it. What you detect driving around and
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> > what you see at the
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> > two locations are different animals.
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>
> > In Austin, Glenn has a link that crosses the
> University of
>
> > Texas Campus.
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> >
>
> > UT probably has the densest configuration of WiFi on
> every
>
> > channel you
>
> >
>
> > could see but because they are indoors, and have the

>
> > standard antennas,
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> >
>
> > and are a couple of miles from either link, it is not
> a
>
> > problem.
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>
> > Kip
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>
> > On Mon, 2009-09-14 at 12:56 +0000, J. Gordon Beattie,
> Jr.,
>
> > W2TTT wrote:
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> > > Steve,
>
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> > >
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> >
>
> > > Your experience is encouraging. I'm worried,
>
> > though, because I detected
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> >
>
> > > 100+ APs on a route that probably had more APs
> that
>
> > what I detected.
>

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> > > The density is probably 10 times what you
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> > experienced. The only way to know
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> > > is to try it and then we'll know!
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> > > Maybe next weekend!
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> > > Thanks & 73,
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> > > Gordon Beattie, W2TTT
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> > > From: ntms-hsmm@yahoogrou ps.com
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> > [mailto:ntms- hsmm@yahoogrou ps.com] On Behalf
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> > > Of s_ahlbom
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> > > Sent: Monday, September 14, 2009 12:44 PM
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> > > To: ntms-hsmm@yahoogrou ps.com
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> > > Subject: [ntms-hsmm] Re: Frequency Usage
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> > > I have routinely made 8-10 mile connections from
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> > residential neighborhoods
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> > > with 20+ AP's showing up, using the same antenna
> (at
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> > 20') and 400 mw power
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> > > you mentioned. Our HSMM AP was up 300' on a tower
> and
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> > just barely "line of
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>
> > > sight" through the trees using a 14 dB gain
> slotted
>
> > waveguide omni antenna

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>
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> > strength on channel 3 on the
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> > > This was on the W3EOC digital network in SE PA. I
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> > since moved to NC ...
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> > > and really miss the HSMM capability we had.
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> > > Steve, W3AHL
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> > > --- In ntms-hsmm@yahoogrou <mailto:ntms-
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> > hsmm%40yahoogrou ps.com> ps.com, "J.
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> > > Gordon Beattie, Jr., W2TTT" <w2ttt@...>
> wrote:
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> > > > Glenn,
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> > > > Shift of subject.one thing that I really
> need to
>
> > do is to check how far we
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>
> > > > can really go on 2.4 WiFi these days.
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> > > > Several years ago, we could go almost a mile
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> > directional antennas and
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> > > > Now, I think going several hundred feet is
> going
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> > to be an issue at 2..4
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> > > > because of the number of systems in our
> area.
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> > > > I did a simple one mile ride from home to
> church
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> > and found 100+ WiFi
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> > > access
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> > > > points in addition to the very strong
> "public"
>
> > access point operated on
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> > > our
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> > > > main street by the local cable company. I'll
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> > > > distribution of all these sites to see if
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> > can be managed through
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> > > > We'll see!
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> > > > Thanks & 73,
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> > version of virus signature
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> > Kipton Moravec AE5IB .- . ... -...
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> > Four Way Test
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> > Is it the Truth?
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> > Is it Fair to all concerned?
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> > Will it build Goodwill and Better Friendships?
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> > Will it be Beneficial to all concerned?
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> > - Herbert J Taylor (1932)
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1531. Re: [ntms-hsmm] OLSR Question.

Yahoo group: DAWG-HSMM
Date: 2009-09-15 01:39:17 UTC
From: Glenn Currie
Topic: 1474 Message: 1531

I have some of the Ubuiqui radios but have not had time to
test them.

In addition to the OLSR code we have added a lot of unique
(non standard?) code to expand our original addressing scheme that
only allowed for 256 nodes.

Now 256 nodes was more than enough to hook up all the local hospitals,
but we thought the project might grow beyond that and that and therefore
put a great deal of effort in expanding the address range so I think most
hams in the U.S can now have a few addresses.

The key point is that OLSR alone - may not be enough to link with
our WRT54G based HSMM-MESH nodes.

They would link at the MAC level, but after the OLSR level 3 link level
code, might get lost.

-Glenn

--- On Mon, 9/14/09, Ron Cole <rdcole@yahoo.com> wrote:

From: Ron Cole <rdcole@...>
Subject: Re: [ntms-hsmm] OLSR Question.
To: ntms-hsmm@yahoogroups.com
Date: Monday, September 14, 2009, 7:32 PM

Thanks Glen,

Thats exactley what I wanted to know.

From what I have read the Ubiquiti gear and be loaded with dd-WRT & OLSR..

It looks like another hardware path to explore.

I will let he group know more once I get something up and running.

Any one think about running a 44 subnet on these networks?

Ron

n5hyh.ampr.org

--- On Mon, 9/14/09, Glenn Currie <kd5mfw_7@yahoo. com> wrote:

> From: Glenn Currie <kd5mfw_7@yahoo. com>

> Subject: Re: [ntms-hsmm] OLSR Question.

> To: ntms-hsmm@yahoogrou ps.com

> Date: Monday, September 14, 2009, 7:07 PM

> We are running the OLSR plug in code

> written for open-wrt firmware for

> the WRT54G as part of the masters thesis of Andreas

> Tonnensen.

>

> <http://www.olsr. org/?q=backgroun d>

>

> Andreas looked at all the 3 rd party firmware platforms and

> found the design done

> by the open-wrt to be prefferable for his use for several

> reasons, such as the plug

> in feature. That is why we went with open-wrt - no need

> to reinvent the wheel - too

> much other value added ham radio stuff needed.

>

> We have experimented with various releases of the OLSR code

> as they come out,

> but it would take a long time to describe all the types of

> testing we have done.

>

> We will move to later versions of OLSR, if they are helpful

> in our view, in later

> releases of HSMM-MESH firmware.

>

> But we have made many other changes as well, not just

> adding OLSR so answering

> your specific OLSR question may not actually answer all

> your questions.

>

> -Glenn

>

> --- On Mon, 9/14/09, Ron Cole <rdcole@yahoo. com>

> wrote:

>

> From: Ron Cole <rdcole@yahoo. com>

> Subject: [ntms-hsmm] OLSR Question.

> To: ntms-hsmm@yahoogrou ps.com

> Date: Monday, September 14, 2009, 1:20 PM

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> In the Austin case are you running straight OLSR

> RFC-3626 or has it been modified somehow?

>

>

>

> Ron

>

> n5hyh

>

>

>

> --- On Mon, 9/14/09, Glenn Currie <kd5mfw_7@yahoo.

> com> wrote:

>

>

>

> > From: Glenn Currie <kd5mfw_7@yahoo. com>

>

> > Subject: RE: [ntms-hsmm] Re: Frequency Usage

>

> > To: ntms-hsmm@yahoogrou ps.com

>

> > Date: Monday, September 14, 2009, 11:38 AM

>

> > Quite right.

>

> >

>

> > In one of my presentations I did some "war driving"

> for the

>

> > U.T. area

>

> > we were shooting across and during the presentation

> one of

>

> > the hams

>

> > said, "look at that, they are thicker than flees!".

> Yes

>

> > and the point was

>

> > exactly what Kip pointed out. Due to the relative

> signal

>

> > strength, the

>

> > 10 mile shot across the area was a piece of cake,

> that

>

> > required only the

>

> > time to set up the gear and aim the antennas.

>

> >

>

> > Please help spread the word. Yes there are MILLIONS

> of

>

> > the Wi-Fi devices

>

> > out there and most if not all of them are potential

> ham

>

> > radios. The are cheap.

>

> > The lack of inteference is by design and pretty non

>

> > intuitive, but works like

>

> > gang busters.

>

> >

>

> > We can work right in the shared ISM band with good RF

>

> > knowledge and seldom

>

> > using amps and do all we need to do.

>

> >

>

> > It took me a while to believe it, but the field

> results are

>

> > quite consistent, and we

>

> > are now getting in more field reports that support

> the

>

> > claims. This is the deal

>

> > of a lifetime for hams. Jump in and give it a try!

> The

>

> > more of you out there, on

>

> > the air, the more fun it is!

>

> >

>

> > -Glenn

>

> > kd5mfw@arrl. net

>

> >

>

> > --- On Mon, 9/14/09, Kipton Moravec <kip@...>

>

> > wrote:

>

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> > From: Kipton Moravec <kip@...>

>

> > Subject: RE: [ntms-hsmm] Re: Frequency Usage

>

> > To: ntms-hsmm@yahoogrou ps.com

>

> > Date: Monday, September 14, 2009, 10:50 AM

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> >   I would try it. What you detect driving around and

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> > what you see at the

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>

> > two locations are different animals.

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>

> > In Austin, Glenn has a link that crosses the

> University of

>

> > Texas Campus.

>

> >

>

> > UT probably has the densest configuration of WiFi on

> every

>

> > channel you

>

> >

>

> > could see but because they are indoors, and have the

>

> > standard antennas,

>

> >

>

> > and are a couple of miles from either link, it is not

> a

>

> > problem.

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>

> > Kip

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> > On Mon, 2009-09-14 at 12:56 +0000, J. Gordon Beattie,

> Jr.,

>

> > W2TTT wrote:

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>

> > > Steve,

>

> >

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> > >

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> >

>

> > > Your experience is encouraging. I'm worried,

>

> > though, because I detected

>

> >

>

> > > 100+ APs on a route that probably had more APs

> that

>

> > what I detected.

>

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> > > The density is probably 10 times what you

>

> > experienced. The only way to know

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> > > is to try it and then we'll know!

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> > > :-)

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> > > Maybe next weekend!

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> > > Thanks & 73,

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> > > Gordon Beattie, W2TTT

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> > > From: ntms-hsmm@yahoogrou ps.com

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> > [mailto:ntms- hsmm@yahoogrou ps.com] On Behalf

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> >

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> > > Of s_ahlbom

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> > > Sent: Monday, September 14, 2009 12:44 PM

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> > > To: ntms-hsmm@yahoogrou ps.com

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> > > Subject: [ntms-hsmm] Re: Frequency Usage

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> > > I have routinely made 8-10 mile connections from

>

> > residential neighborhoods

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>

> > > with 20+ AP's showing up, using the same antenna

> (at

>

> > 20') and 400 mw power

>

> >

>

> > > you mentioned. Our HSMM AP was up 300' on a tower

> and

>

> > just barely "line of

>

> >

>

> > > sight" through the trees using a 14 dB gain

> slotted

>

> > waveguide omni antenna

>

> >

>

> > > and 400 mw.

>

> >

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> >

>

> > > At my home I set up three typical consumer AP's

> in

>

> > about a 50' radius around

>

> >

>

> > > my HSMM dish at 20' and connected to another of

> our

>

> > HSMM nodes about 6 miles

>

> >

>

> > > away. I could only see a very slight decrease in

> data

>

> > throughput when the

>

> >

>

> > > three local AP's were turned on and streaming

> data,

>

> > which really surpised

>

> >

>

> > > me. The distant AP was only about "40%" signal

>

> > strength on channel 3 on the

>

> >

>

> > > Engenius ECB-8610, while the local AP's were

> "90%" on

>

> > Channels 1 and 6..

>

> >

>

> > >

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> >

>

> > > This was on the W3EOC digital network in SE PA. I

> have

>

> > since moved to NC ...

>

> >

>

> > > and really miss the HSMM capability we had.

>

> >

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>

> > > Steve, W3AHL

>

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> > > --- In ntms-hsmm@yahoogrou <mailto:ntms-

>

> > hsmm%40yahoogrou ps.com> ps.com, "J.

>

> >

>

> > > Gordon Beattie, Jr., W2TTT" <w2ttt@...>

> wrote:

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> > > >

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> > > > Glenn,

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> > > > Shift of subject.one thing that I really

> need to

>

> > do is to check how far we

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> >

>

> > > > can really go on 2.4 WiFi these days.

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> > > > Several years ago, we could go almost a mile

> with

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> > directional antennas and

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> > > > 18db/500mW bi-directional amplifiers.

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> > > > Now, I think going several hundred feet is

> going

>

> > to be an issue at 2..4

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>

> > > > because of the number of systems in our

> area.

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> > > > I did a simple one mile ride from home to

> church

>

> > and found 100+ WiFi

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> >

>

> > > access

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>

> > > > points in addition to the very strong

> "public"

>

> > access point operated on

>

> >

>

> > > our

>

> >

>

> > > > main street by the local cable company. I'll

> need

>

> > to check on the channel

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> > > > distribution of all these sites to see if

> this

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> > can be managed through

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>

> > > > channel selection.

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> > > > We'll see!

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> > > > Thanks & 73,

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> > > > Gordon Beattie, W2TTT

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> > > > _____ Information from ESET Smart

> Security,

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> > version of virus

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> > > signature

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> > > > database 4422 (20090913) _____

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> > > > The message was checked by ESET Smart

> Security.

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> > > > http://www.eset. <http://www.eset. com> com

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> > > > _____ Information from ESET Smart

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> > version of virus

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> > > > database 4422 (20090913) _____

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> > > > The message was checked by ESET Smart

> Security.

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> > > _____ Information from ESET Smart Security,

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> > version of virus signature

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> > > database 4423 (20090914) _____

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> > > The message was checked by ESET Smart Security.

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> > > _____ Information from ESET Smart Security,

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> > version of virus signature

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> > > database 4423 (20090914) _____

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> > > The message was checked by ESET Smart Security.

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> > Kipton Moravec AE5IB .- . ... -...

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> > Four Way Test

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> > Is it the Truth?

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> > Is it Fair to all concerned?

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> > Will it build Goodwill and Better Friendships?

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> > Will it be Beneficial to all concerned?

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> > - Herbert J Taylor (1932)

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> > Yahoo! Groups Links

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[Non-text portions of this message have been removed]

1532. RE: [ntms-hsmm] OLSR Question.

Yahoo group: DAWG-HSMM
Date: 2009-09-15 03:48:39 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1474 Message: 1532

Mel,

Y'all get rain in western Washington?

:-)

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of icra@...
Sent: Monday, September 14, 2009 6:49 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] OLSR Question.

WIFI RF 'clutter' is not the issue around here...weather and trees are our problems

We have a huge problem every time we get some precipitation...and we get a lot. Does not
even need to be heavy, just a little mist or fog will cut a link.

With 100 foot tall fir trees all over the place, getting a clear LOS is very hard....and never
were you need

Slowly (very slowly) learning about this stuff and hope to get at least one or two others to play
with it to figure out what we can do with it around here

Mel
N7OKL
Oak Harbor, WA

_____ Information from ESET Smart Security, version of virus signature database 4425 (20090914) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 4425 (20090914) _____

The message was checked by ESET Smart Security.

http://www.eset.com

[Non-text portions of this message have been removed]

1533. Re: [ntms-hsmm] OLSR Question.

Yahoo group: DAWG-HSMM
Date: 2009-09-15 07:32:39 UTC
From: John Champa
Topic: 1474 Message: 1533

Greeting!
In the many deliberations of the old ARRL HSMM WG we tried to grapple with this almost counter-intuitive phenomenon Glenn and Kip describe so well by giving it a name:
"The Proximity Effect" .

In simple words, the WLAN router "sees" it's clients and primarily only its clients
because they are nearby, they have the strongest signals, and its *transmit / receive *
capabilities with the standard WiFi rubber duck are extremely limited, falling off
very quickly with range (by design). So is the range of the average laptop with built-in
antennas. A weaker signal passing by (essentially passing overhead) gets ignored because
it is too weak to associate....except at the distant end where at that point using a high-gain
directional antenna, it is now by far the strongest signal.

Confusing, I know, and I am probably not explaining it nearly it as well as the physicists
on the old WG did. But as Glenn and Kip state, it works, and works extremely well too.

Try this. Instead of "war driving" (not appropriate phrasing for Ham? ;o) Hmmm...OK, do an RF Area
Survey (HI). But in place of the omni-antenna, instead use a highly directional gain antenna such
as the inexpensive MFJ-1800 on a camera tri-pod. As the antenna is slued through 360 degrees you will
observe many, many WiFi nodes, but not all at once. Usually only one or two at a time as they pop
in and out of your directional beam. Most are on channel 6, the mfgr's default channel for many
models. They cannot (for the most part) detect the presence of the each other because, again, of their extremely limited range capabilities.
However, you can see them all, at least those within in range of your antenna. Perhaps a better term might be antenna selecting?

I had better quit while I am ahead (maybe ;o).

Hope that helps!

73,
John K8OCL

On Mon, Sep 14, 2009 at 1:20 PM, Ron Cole <rdcole@...> wrote:

>
>
> In the Austin case are you running straight OLSR RFC-3626 or has it been
> modified somehow?
>
> Ron
> n5hyh
>
> --- On Mon, 9/14/09, Glenn Currie <kd5mfw_7@...<kd5mfw_7%40yahoo.com>>
> wrote:
>
> > From: Glenn Currie <kd5mfw_7@... <kd5mfw_7%40yahoo.com>>
> > Subject: RE: [ntms-hsmm] Re: Frequency Usage
> > To: ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>
> > Date: Monday, September 14, 2009, 11:38 AM
> > Quite right.
> >
> > In one of my presentations I did some "war driving" for the
> > U.T. area
> > we were shooting across and during the presentation one of
> > the hams
> > said, "look at that, they are thicker than flees!". Yes
> > and the point was
> > exactly what Kip pointed out. Due to the relative signal
> > strength, the
> > 10 mile shot across the area was a piece of cake, that
> > required only the
> > time to set up the gear and aim the antennas.
> >
> > Please help spread the word. Yes there are MILLIONS of
> > the Wi-Fi devices
> > out there and most if not all of them are potential ham
> > radios. The are cheap.
> > The lack of inteference is by design and pretty non
> > intuitive, but works like
> > gang busters.
> >
> > We can work right in the shared ISM band with good RF
> > knowledge and seldom
> > using amps and do all we need to do.
> >
> > It took me a while to believe it, but the field results are
> > quite consistent, and we
> > are now getting in more field reports that support the
> > claims. This is the deal
> > of a lifetime for hams. Jump in and give it a try! The
> > more of you out there, on
> > the air, the more fun it is!
> >

> > -Glenn
> > kd5mfw@... <kd5mfw%40arrl.net>
> >
> > --- On Mon, 9/14/09, Kipton Moravec <kip@... <kip%40kdream.com>>
> > wrote:
> >
> > From: Kipton Moravec <kip@... <kip%40kdream.com>>
> > Subject: RE: [ntms-hsmm] Re: Frequency Usage
> > To: ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>
> > Date: Monday, September 14, 2009, 10:50 AM
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> > I would try it. What you detect driving around and
> > what you see at the
> >
> > two locations are different animals.
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> > In Austin, Glenn has a link that crosses the University of
> > Texas Campus.
> >
> > UT probably has the densest configuration of WiFi on every
> > channel you
> >
> > could see but because they are indoors, and have the
> > standard antennas,
> >
> > and are a couple of miles from either link, it is not a
> > problem.
> >
> >
> >
> > Kip
> >
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> >
> > On Mon, 2009-09-14 at 12:56 +0000, J. Gordon Beattie, Jr.,
> > W2TTT wrote:

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> > > Steve,
> >
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> >
> > > Your experience is encouraging. I'm worried,
> > though, because I detected
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> > > 100+ APs on a route that probably had more APs that
> > what I detected.
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> > > The density is probably 10 times what you
> > experienced. The only way to know
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> > > is to try it and then we'll know!
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> > > Maybe next weekend!
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> > > Thanks & 73,
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> > > Gordon Beattie, W2TTT
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> > > From: ntms-hsmm@yahoogrou ps.com
> > [mailto:ntms-hsmm@yahoogrou ps.com] On Behalf
> >
> > > Of s_ahlbom
> >
> > > Sent: Monday, September 14, 2009 12:44 PM
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> > > To: ntms-hsmm@yahoogrou ps.com
> >
> > > Subject: [ntms-hsmm] Re: Frequency Usage
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> > > I have routinely made 8-10 mile connections from
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> > > with 20+ AP's showing up, using the same antenna (at
> > 20') and 400 mw power
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> > > you mentioned. Our HSMM AP was up 300' on a tower and
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> > > sight" through the trees using a 14 dB gain slotted
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> >
> > > and 400 mw.
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> > > At my home I set up three typical consumer AP's in
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> > > away. I could only see a very slight decrease in data
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> > > three local AP's were turned on and streaming data,
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> > > me. The distant AP was only about "40%" signal
> > strength on channel 3 on the
> >
> > > Engenius ECB-8610, while the local AP's were "90%" on
> > Channels 1 and 6..
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> >
> > > This was on the W3EOC digital network in SE PA. I have
> > since moved to NC ...
> >
> > > and really miss the HSMM capability we had.
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> > >
> >
> > > Steve, W3AHL
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> >
> > > --- In ntms-hsmm@yahoogrou <mailto:ntms-
> > hsmm%40yahoogrou ps.com> ps.com, "J.
> >
> > > Gordon Beattie, Jr., W2TTT" <w2ttt@...> wrote:
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> > > > Glenn,
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> > > >
> >
> > > > Shift of subject.one thing that I really need to
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> > > >
> >
> > > > Several years ago, we could go almost a mile with
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> > > > 18db/500mW bi-directional amplifiers.
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> > > Now, I think going several hundred feet is going

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> > > > because of the number of systems in our area.
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> > > > I did a simple one mile ride from home to church
> > and found 100+ WiFi
> >
> > > access
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> > > > points in addition to the very strong "public"
> > access point operated on
> >
> > > our
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> > > > main street by the local cable company. I'll need
> > to check on the channel
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> > > > distribution of all these sites to see if this
> > can be managed through
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> > > > channel selection.
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> > > > We'll see!
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> > > > Thanks & 73,
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> > > > Gordon Beattie, W2TTT
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> > > > _____ Information from ESET Smart Security,
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> > Kipton Moravec AE5IB .- . ... -...
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> > Four Way Test
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> > Is it the Truth?
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> > Is it Fair to all concerned?
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> > Will it build Goodwill and Better Friendships?
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> > - Herbert J Taylor (1932)
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mailto:ntms-hsmm-fullfeatured@yahoogroups.com<ntms-hsmm-fullfeatured%40yahoogroups.com>
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Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1534. Re: [ntms-hsmm] Re: Frequency Usage

Yahoo group: DAWG-HSMM
Date: 2009-09-15 08:00:02 UTC
From: John Champa
Topic: 1474 Message: 1534

Sorry! I posted my comment to the wrong thread. My bad. Sorry.
73,
John K8OCL

On Mon, Sep 14, 2009 at 11:38 AM, Glenn Currie <kd5mfw_7@...> wrote:

>
>
> Quite right.
>
> In one of my presentations I did some "war driving" for the U.T. area
> we were shooting across and during the presentation one of the hams
> said, "look at that, they are thicker than flees!". Yes and the point was
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> kd5mfw@... <kd5mfw%40arrl.net>
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> wrote:
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> From: Kipton Moravec <kip@... <kip%40kdream.com>>
> Subject: RE: [ntms-hsmm] Re: Frequency Usage
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> To: ntms-hsmm@yahoogroups.com <ntms-hsmm%40yahoogroups.com>

> Date: Monday, September 14, 2009, 10:50 AM
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> > Maybe next weekend!
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> > Thanks & 73,

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> > Gordon Beattie, W2TTT
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> > 201.314.6964
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> > From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com] On
> Behalf
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> > Of s_ahlbom
>
> > Sent: Monday, September 14, 2009 12:44 PM
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> > To: ntms-hsmm@yahoogrou ps.com
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> > Subject: [ntms-hsmm] Re: Frequency Usage
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> > This was on the W3EOC digital network in SE PA. I have since moved to NC
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> > and really miss the HSMM capability we had.
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> > --- In ntms-hsmm@yahoogrou <mailto:ntms- hsmm%40yahoogrou ps.com> ps.com,
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> > Gordon Beattie, Jr., W2TTT" <w2ttt@...> wrote:
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> > > I did a simple one mile ride from home to church and found 100+ WiFi
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> > access
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> > > points in addition to the very strong "public" access point operated on
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> > > main street by the local cable company. I'll need to check on the
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> > > distribution of all these sites to see if this can be managed through
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> > > Thanks & 73,
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Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1535. RE: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

Yahoo group: DAWG-HSMM
Date: 2009-09-15 00:48:27 UTC
From: Glenn Currie
Topic: 1474 Message: 1535

We are working on something like this which is based on the
"dot-draw" plug in for open-wrt.

<http://d.yimg.com/kq/groups/17395913/homepage/name/955244?type=sn>

It provides a dyamic map of currently visible mesh nodes.

So many projects, so little time.

-Glenn

--- On Mon, 9/14/09, Dave <dave@...> wrote:

From: Dave <dave@...>
Subject: RE: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications
To: ntms-hsmm@yahoogroups.com
Date: Monday, September 14, 2009, 2:06 PM

I run UI-View with InfoKiosk and was thinking it be of great value to HSMM

effort if we could do an add-on app that showed HSMM/mesh network as part of

the map? That way we could overlay an existing APRS status display with HSMM

info without having to use an APRS transmitted at each antenna location. An

image editor allowing an object to be created without having a

transmitter. ..

It would be a very minor issue to add an HSMM icon to UI-View icon text

file, and maybe just as simple to be able to add a fixed point to a map

(because HSMM may *eventually* have an APRS identifier with it, but won't

unless we add another level of tech to it). It could be that a full-time

internet link would be able to upload the position.

Maybe someone who programs can understand how to change the UI-View icon

data to show an HSMM station that can be fixed to a map? Seems simple

enough.... new icon/text files are being created as they are needed. We need

an icon in APRS.

Dave

/++++++++++ +++++++++ +++++++++ +++/

From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com] On Behalf

Of Glenn Currie

Sent: Sunday, September 13, 2009 11:46 PM

To: ntms-hsmm@yahoogrou ps.com

Subject: RE: [ntms-hsmm] ISO 6523 Naming for Networks, Services and

Applications

Yes,

For a variety of reasons, having ways to be more cleaver about how to

traverse

an enormous address's space will pay dividends in better response.

We are looking at ways to make the best use of APRS messaging, and possibly

add messages for mesh status.

There was an article in QEX a while back by Mitchell where he showed how he

had integrated a wide variety of digital ham modes.

As for D-STAR, EchoLInk etc. we need to do our best to blend them together.

Recently Bob, B. the inventor of APRS proposed a universal text message

scheme

for ham radio. I am still pondering the implications.

I am interested in fast smart routing so when we can use our fixed and

mobile mesh

nodes in a store and forward way to pass data, we have an efficient system.

Some

sort of tagging could bypass a brute dumb, brute force method of linking..

Lots to think about, thanks for pointing out the previous efforts in this

area.

We hams (at least some of us) really get on all the different government

agencies to

work out better interoperability. We have plenty of our own

interoperability within

ham modes to keep us busy for quite a while.

If the data / message every goes through a server, we should have some way

to

cross link it to whatever other modes make sense. Sending live video as

short APRS

messages just does not sound like a good idea just due to bandwidth

considerations,

but many of the major digital modes remain "islands" in a digital sea and we

should

do what we can to cross link them, and some sort of tagging system at a

higher

level than IP could be used to sort it out.

Lots to think about.

-Glenn

--- On Sun, 9/13/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...

<mailto:w2ttt% 40att.net> > wrote:

From: J. Gordon Beattie, Jr., W2TTT <w2ttt@... <mailto:w2ttt% 40att.net>

>

Subject: RE: [ntms-hsmm] ISO 6523 Naming for Networks, Services and

Applications

To: ntms-hsmm@yahoogrou <mailto:ntms- hsmm%40yahoogrou ps.com> ps.com

Date: Sunday, September 13, 2009, 10:43 PM

Glenn,

IPv6 is the right answer, but I was thinking, as you hinted, that we may

want to consider it for what rides above it, so that we don't need to

resolve IPv6 addresses associated with specific applications and services

manually.

We might consider integrating the interoperability controls into the naming at gateways for instance, and knowing the application name and domain in which it rests may be useful. For example, even when there is no radio involved, Echolink wants validated users or service points, so if we parceled out a service name that implied Echolink, then it would be able to autonomously determine who gets naming space in their world while also enabling those who are so "blessed" to seamlessly integrate their systems.

So (heresy to follow) if we wanted to allow Echolink to IRLP to DSTAR integrated networks or integrate any of those with other networks or application services, we would have a way to indicate to our edge gateways (application or service and not necessarily network gateways) how to carry the transaction or other communication.

Read on and we can discuss it some more when we all have had some time to brainstorm a bit.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogrou ps.com [mailto:ntms- hsmm@yahoogrou ps.com] On Behalf

Of Glenn Currie

Sent: Monday, September 14, 2009 3:19 AM

To: ntms-hsmm@yahoogrou ps.com

Subject: Re: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

Lots of new stuff to consider as new horizons open up.

Most of the world is going to IPv6 - eventually. But there is an almost infinite

number of things you can layer on top of it.

Thanks for the pointer I have down loaded it and will check it out. There

is

a lot of stuff form the old TexNet packet system that we still discuss as

well.

-Glenn

kd5mfw@arrl. <mailto:kd5mfw% 40arrl.net> net

--- On Sun, 9/13/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...

<mailto:w2ttt% 40att.net>

<mailto:w2ttt% 40att.net> > wrote:

From: J. Gordon Beattie, Jr., W2TTT <w2ttt@... <mailto:w2ttt% 40att.net>

<mailto:w2ttt% 40att.net>

>

Subject: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

To: ntms-hsmm@yahoogrou <mailto:ntms- hsmm%40yahoogrou ps.com> ps.com

Date: Sunday, September 13, 2009, 8:24 PM

Hi Folks!

Here is an idea that may be useful for structuring network element and

service or application identifiers for Amateur Radio.

Years ago, this was something that was cooked up to get us past the IP

address space and broaden the naming conventions that we might choose to use

within Amateur Radio. It was always thought that the old "protocol wars" of

Amateur Packet Radio needed to be transcended and this was an intellectual

product that may be useful in a broader context. With HSMM introducing

notions of Hinternet and Internet interoperability, we might want to take a

look at this coding scheme for our HSM networks, services and applications.

Check out Code "0011" in the ISO 6523 document and perhaps we could start a

dialogue on that either here or elsewhere.

http://www.cyber- identity. com/download/ ICD-list. pdf

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

_____ Information from ESET Smart Security, version of virus signature

database 4422 (20090913) _____

The message was checked by ESET Smart Security.

http://www.eset. com

_____ Information from ESET Smart Security, version of virus signature

database 4422 (20090913) _____

The message was checked by ESET Smart Security.

http://www.eset. com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

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http://www.eset. com

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database 4422 (20090913) _____

The message was checked by ESET Smart Security.

http://www.eset. com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

No virus found in this outgoing message.

Checked by AVG - www.avg.com

Version: 8.5.409 / Virus Database: 270.13.95/2368 - Release Date: 09/13/09 17:50:00

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1536. Wireless Network Visualization Project

Yahoo group: DAWG-HSMM
Date: 2009-09-22 13:31:08 UTC
From: ALERTradio ERC | N0PCO
Topic: 1474 Message: 1536

Here's a link to Kansas University's Wireless Network Visualization Project:

http://www.ittc.ku.edu/wlan/index.shtml

Unknown if it is still an active project, but there is some good
information about mapping presented.

Mars, N0PCO
ALERTradio ERC
www.alertradio.net | www.asteriskradio.net | www.darnsimple.net

1537. Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 03:30:43 UTC
From: Bill V WA7NWP
Topic: 1537 Message: 1537

Ok... All the magic TCP data flow from a device like a a WRt54GL is pretty cool - but it's a little lacking the 'the ham factor.'

There's got to be a way, given we have the source, to easily tweak the setup and essentially turn it into a packet (KISS?) TNC and data radio. I know there are modes for monitoring the raw packets. If we had some way to generate our own frames (like AX25 only something more modern and practical) that we can send with the 54G (or ?) we could put the existing data/packet tools on top of this new data layer. This would bring back all the Ham fun of looking for DX packets, APRS, etc with a high speed yet cheap radio box. Maybe it could even be done without affecting the existing data modes...

How long is the SSID field? Maybe we would use that for data?

73
Bill - WA7NWP

1538. Re: Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 03:52:05 UTC
From: Andy
Topic: 1537 Message: 1538

Bill,

I'm not sure I follow you're thought process here. Since the WRT54G is essentially a Linux box you could probably write some specialized software that would provide "packet like" applications, but I'm not sure why. The system is already using a standardized protocol (TCP/IP), which allows for any application to be applied over the physical layer. If you want to run existing packet type applications over the network you can. However, the significant benefit of the use of the WRT54G for amateur purposes is that it provides higher bandwidth and utilizes the TCP/IP protocol. This brings the potential for multi-media applications as well as e-mail, file sharing, instant messaging, and any other application that utilizes TCP/IP. Limiting the applications to "packet like" apps would be like building a twenty lane highway for a few cyclists. Why sell your Yugo to buy a Corvette and then drive 5 mph? Packet and especially APRS are alive and well, and fill a critical need. But HSMM offers the potential to take amateur wireless digital communications to a whole new level, and with it all kinds opportunity for innovation.

--- In ntms-hsmm@yahoogroups.com, Bill V WA7NWP <wa7nwp@...> wrote:
>
> Ok... All the magic TCP data flow from a device like a a WRt54GL is
> pretty cool - but it's a little lacking the 'the ham factor.'
>
> There's got to be a way, given we have the source, to easily tweak the
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> etc with a high speed yet cheap radio box. Maybe it could even be
> done without affecting the existing data modes...
>
> How long is the SSID field? Maybe we would use that for data?
>
> 73
> Bill - WA7NWP
>

1539. Re: [ntms-hsmm] Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 04:26:37 UTC
From: Ron Cole
Topic: 1537 Message: 1539

I think the 'Ham Factor' was the concentration on the underlying technology not the content of the message. Thats still there but its in the software which is not as easy to get at as a knob on the from of a radio was. With OLSR the system optimizes the network based on radio conditions which is very different from older Ham Radio operation. HSMM today is new territory and its a very different creature from the 25 year old 1200 baud AX.25, Lets embrace the change and move forward.

Ron
N5HYH

--- On Tue, 9/22/09, Bill V WA7NWP <wa7nwp@...> wrote:

> From: Bill V WA7NWP <wa7nwp@gmail.com>
> Subject: [ntms-hsmm] Packet on WIFI
> To: ntms-hsmm@yahoogroups.com
> Date: Tuesday, September 22, 2009, 10:30 PM
> Ok... All the magic
> TCP data flow from a device like a a WRt54GL is
> pretty cool - but it's a little lacking the 'the ham
> factor.'
>
> There's got to be a way, given we have the source, to
> easily tweak the
> setup and essentially turn it into a packet (KISS?) TNC and
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> radio. I know there are modes for monitoring the raw
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> etc with a high speed yet cheap radio
> box. Maybe it could even be
> done without affecting the existing data modes...
>
> How long is the SSID field? Maybe we would
> use that for data?
>
> 73
> Bill - WA7NWP
>
>

> ---
>
> Yahoo! Groups Links
>
>
> mailto:ntms-hsmm-fullfeatured@yahoogroups.com
>
>
>

1540. RE: [ntms-hsmm] Re: Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 04:27:29 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1537 Message: 1540

Hmmm..So can't we run UDP through a WiFi router if you configure it to pass the right port traffic? Once done, couldn't we create an IP-based form of APRS without going into a retrograde operational mode?

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Andy
Sent: Wednesday, September 23, 2009 3:52 AM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Packet on WIFI

Bill,

I'm not sure I follow you're thought process here. Since the WRT54G is essentially a Linux box you could probably write some specialized software that would provide "packet like" applications, but I'm not sure why. The system is already using a standardized protocol (TCP/IP), which allows for any application to be applied over the physical layer. If you want to run existing packet type applications over the network you can. However, the significant benefit of the use of the WRT54G for amateur purposes is that it provides higher bandwidth and utilizes the TCP/IP protocol. This brings the potential for multi-media applications as well as e-mail, file sharing, instant messaging, and any other application that utilizes TCP/IP. Limiting the applications to "packet like" apps would be like building a twenty lane highway for a few cyclists. Why sell your Yugo to buy a Corvette and then drive 5 mph? Packet and especially APRS are alive and well, and fill a critical need. But HSMM offers the potential to take amateur wireless digital communications to a whole new level, and with it all kinds opportunity for innovation.

--- In ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com, Bill V WA7NWP <wa7nwp@...> wrote:
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> done without affecting the existing data modes...
>
> How long is the SSID field? Maybe we would use that for data?
>
> 73
> Bill - WA7NWP
>

_____ Information from ESET Smart Security, version of virus signature database 4448 (20090922) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 4448 (20090922) _____

The message was checked by ESET Smart Security.

http://www.eset.com

[Non-text portions of this message have been removed]

1541. Re: [ntms-hsmm] Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 04:30:14 UTC
From: Kipton Moravec
Topic: 1537 Message: 1541

The WRT54GL does nave two logic level serial ports

As Andy said, it is a little Linux Computer. If you wanted you could convert the Serial to RS-232 and then hook it to a TNC and have a program that converts the serial data to TCP/IP packets for wired or wireless transmission.

The ham factor?
We change the SW to make it a mesh.
We add antennas to make it travel 5 or 10 miles or more I have only gotten 10 miles with a lot of Signal to Noise Ratio to spare.

Some friends are taking two of my units with 24 db gain antennas and do a range test in the next week or so. With 70 mw of power they should be able to go 140 miles. I will be happy if they can do 50 miles. The biggest problem is getting line of sight for the range.

That kind of range with a device designed for home or office use? That is ham radio.

On Tue, 2009-09-22 at 20:30 -0700, Bill V WA7NWP wrote:
> Ok... All the magic TCP data flow from a device like a a WRt54GL is
> pretty cool - but it's a little lacking the 'the ham factor.'
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> etc with a high speed yet cheap radio box. Maybe it could even be
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>
> 73
> Bill - WA7NWP
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

>
--

Kipton Moravec AE5IB .- . ... -...
==========
Four Way Test
Is it the Truth?
Is it Fair to all concerned?
Will it build Goodwill and Better Friendships?
Will it be Beneficial to all concerned?
- Herbert J Taylor (1932)

1542. RE: [ntms-hsmm] Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 04:46:33 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1537 Message: 1542

Hi Folks!

I was wondering if I have two laptops in an ad hoc network, or in a network through a router, what simple applications can I use between the two laptops to check range between them or through a router?

Any suggestions for XP users?

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Kipton Moravec
Sent: Wednesday, September 23, 2009 4:30 AM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Packet on WIFI

The WRT54GL does nave two logic level serial ports

As Andy said, it is a little Linux Computer. If you wanted you could convert the Serial to RS-232 and then hook it to a TNC and have a program that converts the serial data to TCP/IP packets for wired or wireless transmission.

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Some friends are taking two of my units with 24 db gain antennas and do a range test in the next week or so. With 70 mw of power they should be able to go 140 miles. I will be happy if they can do 50 miles. The biggest problem is getting line of sight for the range.

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--

Kipton Moravec AE5IB .- . ... -...
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http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 4448 (20090922) _____

The message was checked by ESET Smart Security.

http://www.eset.com

[Non-text portions of this message have been removed]

1543. RE: [ntms-hsmm] Re: Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 04:50:17 UTC
From: Ron Cole
Topic: 1537 Message: 1543

If the goal is to pass an APRS type beacon just send it as a network broadcast message, if your network is a large one you may want to put a small TTL on it so you dont flood the network with these packets.

Ron
N5HYH

--- On Tue, 9/22/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...> wrote:

> From: J. Gordon Beattie, Jr., W2TTT <w2ttt@...>
> Subject: RE: [ntms-hsmm] Re: Packet on WIFI
> To: ntms-hsmm@yahoogroups.com
> Date: Tuesday, September 22, 2009, 11:27 PM
> Hmmm..So can't we run UDP through a
> WiFi router if you configure it to pass
> the right port traffic? Once done, couldn't we create
> an IP-based form of
> APRS without going into a retrograde operational
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>
>
> Thanks & 73,
>
> Gordon Beattie, W2TTT
>
> 201.314.6964
>
>
>
> -----
>
> From: ntms-hsmm@yahoogroups.com
> [mailto:ntms-hsmm@yahoogroups.com]
> On Behalf
> Of Andy
> Sent: Wednesday, September 23, 2009 3:52 AM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Re: Packet on WIFI
>
>
>
>
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> V WA7NWP <wa7nwp@...> wrote:
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>
> _____ Information from ESET Smart Security, version of
> virus signature
> database 4448 (20090922) _____
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>
> The message was checked by ESET Smart Security.
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> http://www.eset.com
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>
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> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
>
>

```
>     mailto:ntms-hsmm-fullfeatured@yahoogroups.com
>
>
>
```

1544. RE: [ntms-hsmm] Re: Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 04:53:55 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1537 Message: 1544

Exactly!

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of Ron Cole
Sent: Wednesday, September 23, 2009 4:50 AM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Re: Packet on WIFI

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>
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> From: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> [mailto:ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com]
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> To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
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> <mailto:ntms-hsmm%40yahoogroups.com> ps.com, Bill
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> > setup and essentially turn it into a packet (KISS?)
> TNC and data
> > radio. I know there are modes for monitoring the raw
> packets. If we
> > had some way to generate our own frames (like AX25
> only something more
> > modern and practical) that we can send with the 54G
> (or ?) we could
> > put the existing data/packet tools on top of this new
> data layer.
> > This would bring back all the Ham fun of looking for
> DX packets, APRS,
> > etc with a high speed yet cheap radio box. Maybe it
> could even be
> > done without affecting the existing data modes...
> >
> > How long is the SSID field? Maybe we would use that
> for data?
> >
> > 73
> > Bill - WA7NWP
> >
>
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>
>
> _____ Information from ESET Smart Security, version of
> virus signature
> database 4448 (20090922) _____
>
>
> The message was checked by ESET Smart Security.
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>
> http://www.eset. <http://www.eset.com> com
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>
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> virus signature

> database 4448 (20090922) __________
>
> The message was checked by ESET Smart Security.
>
> http://www.eset. <http://www.eset.com> com
>
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>
> [Non-text portions of this message have been removed]
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>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:ntms-hsmm-fullfeatu
<mailto:ntms-hsmm-fullfeatured%40yahoogroups.com> red@yahoogroups.com
>
>
>

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The message was checked by ESET Smart Security.

http://www.eset.com

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The message was checked by ESET Smart Security.

http://www.eset.com

[Non-text portions of this message have been removed]

1545. RE: [ntms-hsmm] Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 04:54:55 UTC
From: Ron Cole
Topic: 1537 Message: 1545

Ping and iperf
use jperf to get a GUI for iperf.

As the Range goes up the C/I gets worse which means the speed goes down so jperf becomes the tool for the job.

Ron
N5HYH

--- On Tue, 9/22/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...> wrote:

> From: J. Gordon Beattie, Jr., W2TTT <w2ttt@att.net>
> Subject: RE: [ntms-hsmm] Packet on WIFI
> To: ntms-hsmm@yahoogroups.com
> Date: Tuesday, September 22, 2009, 11:46 PM
> Hi Folks!
>
> I was wondering if I have two laptops in an ad hoc network,
> or in a network
> through a router, what simple applications can I use
> between the two laptops
> to check range between them or through a router?
>
> Any suggestions for XP users?
>
>
>
> Thanks & 73,
>
> Gordon Beattie, W2TTT
>
> 201.314.6964
>
>
>
> -----
>
> From: ntms-hsmm@yahoogroups.com
> [mailto:ntms-hsmm@yahoogroups.com]
> On Behalf
> Of Kipton Moravec
> Sent: Wednesday, September 23, 2009 4:30 AM
> To: ntms-hsmm@yahoogroups.com
> Subject: Re: [ntms-hsmm] Packet on WIFI
>
>

>
>
>
> The WRT54GL does nave two logic level serial ports
>
> As Andy said, it is a little Linux Computer. If you wanted
> you could
> convert the Serial to RS-232 and then hook it to a TNC and
> have a
> program that converts the serial data to TCP/IP packets for
> wired or
> wireless transmission.
>
> The ham factor?
> We change the SW to make it a mesh.
> We add antennas to make it travel 5 or 10 miles or more I
> have only
> gotten 10 miles with a lot of Signal to Noise Ratio to
> spare.
>
> Some friends are taking two of my units with 24 db gain
> antennas and do
> a range test in the next week or so. With 70 mw of power
> they should be
> able to go 140 miles. I will be happy if they can do 50
> miles. The
> biggest problem is getting line of sight for the range.
>
> That kind of range with a device designed for home or
> office use? That
> is ham radio.
>
> On Tue, 2009-09-22 at 20:30 -0700, Bill V WA7NWP wrote:
> > Ok... All the magic TCP data flow from a device like a
> a WRt54GL is
> > pretty cool - but it's a little lacking the 'the ham
> factor.'
> >
> > There's got to be a way, given we have the source, to
> easily tweak the
> > setup and essentially turn it into a packet (KISS?)
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> > radio. I know there are modes for monitoring the raw
> packets. If we
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> > put the existing data/packet tools on top of this new
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> > This would bring back all the Ham fun of looking for
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> > etc with a high speed yet cheap radio box. Maybe it
> could even be
> > done without affecting the existing data modes...
> >
> > How long is the SSID field? Maybe we would use that
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> > Bill - WA7NWP
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> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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> >
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>
> Kipton Moravec AE5IB .- . ... -...
> ==========
> Four Way Test
> Is it the Truth?
> Is it Fair to all concerned?
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> Will it be Beneficial to all concerned?
> - Herbert J Taylor (1932)
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>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:ntms-hsmm-fullfeatured@yahoogroups.com
>
>
>

1546. Re: [ntms-hsmm] Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 04:58:17 UTC
From: Glenn Currie
Topic: 1537 Message: 1546

There are a very large number of very capable tools to make use of the mesh node technology.

Try downloading the free program WireShark and looking at the packets.

There is an overwhelming wealth of tools to do pretty much anything you want to with this technology, hams have just not been paying attention.

Also one key thing to keep in mind, these are essentially software defined radios and for someone that does not want to mess with computers, none of this digital stuff will be of interest to them.

We have the source code to all the key elements of the system. Our HSMM-MESH code will run on significantly more computers than Microsoft Windows so there is no shortage of computer hardware available.

All the many millions of 802.11b/g and some of the 802.11a radios can be used as Part-97 ham radios.

They are being modified and used by a very large number of technical people on the planet. Most are not hams.

So there is absolutely no shortage of ham mods that an be done. From my vantage point 99.99999999999999999999999999999999999999999999999999% of the situation is that hams have almost completely ignored the most popular radios in the world.

Try WireShark, NetStumbler, Kismet, and you will see what I mean. Lots and lots of ham like activity with almost no hams participateing. Let's see if we can improve the numbers a bit!

-Glenn

--- On Tue, 9/22/09, Bill V WA7NWP <wa7nwp@gmail.com> wrote:

From: Bill V WA7NWP <wa7nwp@...>
Subject: [ntms-hsmm] Packet on WIFI
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, September 22, 2009, 10:30 PM

Ok... All the magic TCP data flow from a device like a a WRt54GL is

pretty cool - but it's a little lacking the 'the ham factor.'

There's got to be a way, given we have the source, to easily tweak the

setup and essentially turn it into a packet (KISS?) TNC and data

radio. I know there are modes for monitoring the raw packets. If we had some way to generate our own frames (like AX25 only something more modern and practical) that we can send with the 54G (or ?) we could put the existing data/packet tools on top of this new data layer. This would bring back all the Ham fun of looking for DX packets, APRS, etc with a high speed yet cheap radio box. Maybe it could even be done without affecting the existing data modes...

How long is the SSID field? Maybe we would use that for data?

73

Bill - WA7NWP

[Non-text portions of this message have been removed]

1547. Re: [ntms-hsmm] Re: Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 05:00:55 UTC
From: Glenn Currie
Topic: 1537 Message: 1547

There are two serial ports on the WRT54G. Hook one to a TNC and
you have a traditional packet gateway to IP radios.

There is an excelent article by Mitchell in the files section of this yahoo site
that show, in great detail how to do this and more. This and more has already
been done. Take a look at the Mitchell article in the files section and read about
history.

-Glenn

--- On Tue, 9/22/09, Andy <andy.knepler@...> wrote:

From: Andy <andy.knepler@...>
Subject: [ntms-hsmm] Re: Packet on WIFI
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, September 22, 2009, 10:52 PM

Bill,

I'm not sure I follow you're thought process here. Since the WRT54G is essentially a Linux box you could probably write some specialized software that would provide "packet like" applications, but I'm not sure why. The system is already using a standardized protocol (TCP/IP), which allows for any application to be applied over the physical layer. If you want to run existing packet type applications over the network you can. However, the significant benefit of the use of the WRT54G for amateur purposes is that it provides higher bandwidth and utilizes the TCP/IP protocol. This brings the potential for multi-media applications as well as e-mail, file sharing, instant messaging, and any other application that utilizes TCP/IP. Limiting the applications to "packet like" apps would be like building a twenty lane highway for a few cyclists. Why sell your Yugo to buy a Corvette and then drive 5 mph? Packet and especially APRS are alive and well, and fill a critical need. But HSMM offers the potential to take amateur wireless digital communications to a whole new level, and with it all kinds opportunity for innovation.

--- In ntms-hsmm@yahoogrou ps.com, Bill V WA7NWP <wa7nwp@...> wrote:

>

> Ok... All the magic TCP data flow from a device like a a WRt54GL is

> pretty cool - but it's a little lacking the 'the ham factor.'

>

> There's got to be a way, given we have the source, to easily tweak the

> setup and essentially turn it into a packet (KISS?) TNC and data

> radio. I know there are modes for monitoring the raw packets. If we

> had some way to generate our own frames (like AX25 only something more

> modern and practical) that we can send with the 54G (or ?) we could

> put the existing data/packet tools on top of this new data layer.

> This would bring back all the Ham fun of looking for DX packets, APRS,

> etc with a high speed yet cheap radio box. Maybe it could even be

> done without affecting the existing data modes...

>

> How long is the SSID field? Maybe we would use that for data?

>

> 73

> Bill - WA7NWP

>

[Non-text portions of this message have been removed]

1548. Re: [ntms-hsmm] Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 05:05:10 UTC
From: Glenn Currie
Topic: 1537 Message: 1548

Please forgive my error. I belong to many groups and thought I was reply to
a post on the Austin HSMM SIG yahoo site.

There is a huge amount of information available on the Internet and even in
ARRl publications regarding the topics you mention. You would probably
enjoy reading the articles.

There is much that can be done with the HSMM gear and lots of ham customizing
going on.

-Glenn

--- On Tue, 9/22/09, Ron Cole <rdcole@...> wrote:

From: Ron Cole <rdcole@...>
Subject: Re: [ntms-hsmm] Packet on WIFI
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, September 22, 2009, 11:26 PM

I think the 'Ham Factor' was the concentration on the underlying technology not the content of the message. Thats still there but its in the software which is not as easy to get at as a knob on the from of a radio was. With OLSR the system optimizes the network based on radio conditions which is very different from older Ham Radio operation. HSMM today is new territory and its a very different creature from the 25 year old 1200 baud AX.25, Lets embrace the change and move forward.

Ron

N5HYH

--- On Tue, 9/22/09, Bill V WA7NWP <wa7nwp@gmail. com> wrote:

> From: Bill V WA7NWP <wa7nwp@gmail. com>

> Subject: [ntms-hsmm] Packet on WIFI

> To: ntms-hsmm@yahoogrou ps.com

> Date: Tuesday, September 22, 2009, 10:30 PM

> Ok... All the magic

> TCP data flow from a device like a a WRt54GL is

> pretty cool - but it's a little lacking the 'the ham

> factor.'

>

> There's got to be a way, given we have the source, to

> easily tweak the

> setup and essentially turn it into a packet (KISS?) TNC and

> data

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> packets. If we

> had some way to generate our own frames (like AX25 only

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> This would bring back all the Ham fun of looking for DX

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> etc with a high speed yet cheap radio

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> done without affecting the existing data modes...

>

> How long is the SSID field? Maybe we would

> use that for data?

>

> 73

> Bill - WA7NWP

>

>

> ---------- --------- --------- ------

>

> Yahoo! Groups Links

>

>

> mailto:ntms-hsmm-fullfeatu red@yahoogroups. com

>

>

>

[Non-text portions of this message have been removed]

1549. Re: [ntms-hsmm] Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 05:06:31 UTC
From: Glenn Currie
Topic: 1537 Message: 1549

Do a Google search for N5OOM HSMM and you can read up on some
of the best HSMM presentations out there. Great stuff. I learned a lot
from them.

-Glenn
KD5MFW

--- On Tue, 9/22/09, Ron Cole <rdcole@...> wrote:

From: Ron Cole <rdcole@...>
Subject: Re: [ntms-hsmm] Packet on WIFI
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, September 22, 2009, 11:26 PM

I think the 'Ham Factor' was the concentration on the underlying technology not the content of the message. Thats still there but its in the software which is not as easy to get at as a knob on the from of a radio was. With OLSR the system optimizes the network based on radio conditions which is very different from older Ham Radio operation. HSMM today is new territory and its a very different creature from the 25 year old 1200 baud AX.25, Lets embrace the change and move forward.

Ron

N5HYH

--- On Tue, 9/22/09, Bill V WA7NWP <wa7nwp@gmail. com> wrote:

> From: Bill V WA7NWP <wa7nwp@gmail. com>

> Subject: [ntms-hsmm] Packet on WIFI

> To: ntms-hsmm@yahoogrou ps.com

> Date: Tuesday, September 22, 2009, 10:30 PM

> Ok... All the magic

> TCP data flow from a device like a a WRt54GL is

> pretty cool - but it's a little lacking the 'the ham

> factor.'

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> There's got to be a way, given we have the source, to

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> done without affecting the existing data modes...

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> 73

> Bill - WA7NWP

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>

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>

> Yahoo! Groups Links

>

>

> mailto:ntms-hsmm-fullfeatu red@yahoogroups. com

>

>

>

[Non-text portions of this message have been removed]

1550. ranging? RE: [ntms-hsmm] Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 05:03:11 UTC
From: kevin asato
Topic: 1537 Message: 1550

Hmm.

Interesting question. Problem with WiFi is that using routing protocols, distance (range) is generally defined by hops between nodes. There is no linear measurement (feet, meters) inherent in things as "distance-vector" protocols. If there is an RSSI/RSL output on the WiFi chipset, then you can get a relative signal strength. Still not a distance/range. Remember, too, that since WiFi is a radio, there are numerous external influences (interference sources) that can change how far one can transmit and receive on any given day, hour, minute, . . .

73,
kevin
kc6pob

--- On Tue, 9/22/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...> wrote:

From: J. Gordon Beattie, Jr., W2TTT <w2ttt@...>
Subject: RE: [ntms-hsmm] Packet on WIFI
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, September 22, 2009, 9:46 PM

Hi Folks!

I was wondering if I have two laptops in an ad hoc network, or in a network

through a router, what simple applications can I use between the two laptops

to check range between them or through a router?

Any suggestions for XP users?

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com] On Behalf

Of Kipton Moravec

Sent: Wednesday, September 23, 2009 4:30 AM

To: ntms-hsmm@yahoogrou ps.com

Subject: Re: [ntms-hsmm] Packet on WIFI

The WRT54GL does nave two logic level serial ports

As Andy said, it is a little Linux Computer. If you wanted you could convert the Serial to RS-232 and then hook it to a TNC and have a program that converts the serial data to TCP/IP packets for wired or wireless transmission.

The ham factor?

We change the SW to make it a mesh.

We add antennas to make it travel 5 or 10 miles or more I have only gotten 10 miles with a lot of Signal to Noise Ratio to spare.

Some friends are taking two of my units with 24 db gain antennas and do a range test in the next week or so. With 70 mw of power they should be able to go 140 miles. I will be happy if they can do 50 miles. The biggest problem is getting line of sight for the range.

That kind of range with a device designed for home or office use? That is ham radio.

On Tue, 2009-09-22 at 20:30 -0700, Bill V WA7NWP wrote:

> Ok... All the magic TCP data flow from a device like a a WRt54GL is
> pretty cool - but it's a little lacking the 'the ham factor.'
>
> There's got to be a way, given we have the source, to easily tweak the
> setup and essentially turn it into a packet (KISS?) TNC and data
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> This would bring back all the Ham fun of looking for DX packets, APRS,
> etc with a high speed yet cheap radio box. Maybe it could even be
> done without affecting the existing data modes...
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> How long is the SSID field? Maybe we would use that for data?

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> 73

> Bill - WA7NWP

>

>

> ---------- --------- --------- ------

>

> Yahoo! Groups Links

>

>

>

>

--

Kipton Moravec AE5IB .- . ... -...

========== ========= ========= ========= =======

Four Way Test

Is it the Truth?

Is it Fair to all concerned?

Will it build Goodwill and Better Friendships?

Will it be Beneficial to all concerned?

- Herbert J Taylor (1932)

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database 4448 (20090922) _____

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http://www.eset. com

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The message was checked by ESET Smart Security.

http://www.eset. com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1551. RE: [ntms-hsmm] Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 05:32:22 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1537 Message: 1551

Ron,

Thanks for the pointer.

Any good user applications such as tty to tty over IP applications or text messaging or an XP-based ftp server?

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Ron Cole
Sent: Wednesday, September 23, 2009 4:55 AM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Packet on WIFI

Ping and iperf
use jperf to get a GUI for iperf.

As the Range goes up the C/I gets worse which means the speed goes down so jperf becomes the tool for the job.

Ron
N5HYH

--- On Tue, 9/22/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@... <mailto:w2ttt%40att.net> > wrote:

> From: J. Gordon Beattie, Jr., W2TTT <w2ttt@... <mailto:w2ttt%40att.net> >
> Subject: RE: [ntms-hsmm] Packet on WIFI
> To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
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> I was wondering if I have two laptops in an ad hoc network,
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> From: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
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> On Behalf
> Of Kipton Moravec
> Sent: Wednesday, September 23, 2009 4:30 AM
> To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> Subject: Re: [ntms-hsmm] Packet on WIFI
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> We change the SW to make it a mesh.
> We add antennas to make it travel 5 or 10 miles or more I
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> > ------------------------------------
> >
> > Yahoo! Groups Links
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> Kipton Moravec AE5IB .- . ... -...
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>
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>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:ntms-hsmm-fullfeatu
<mailto:ntms-hsmm-fullfeatured%40yahoogroups.com> red@yahoogroups.com
>
>
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database 4448 (20090922) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 4448 (20090922) _____

The message was checked by ESET Smart Security.

http://www.eset.com

[Non-text portions of this message have been removed]

1552. Re: Packet on WIFI - Ham Factor - Yes!

Yahoo group: DAWG-HSMM
Date: 2009-09-23 06:10:44 UTC
From: kc6pob
Topic: 1537 Message: 1552

Ham Factor - hmm. Rewriting pieces of software to extract new/additional features from COTS gear. Physically hacking the hardware to increase physical separation of the WiFi nodes or to find a way to slide between existing WiFi transmit frequencies for increased connection reliability. All in the quest to pass messages (voice, data, video) reliably from one point to another. I'd say that's Ham Factor.

I've got a project in work (Netgear WGR614L (L as in linux)) that I am going to hack into. Might take a while as my day and night job of programming and integrating routers into cell phone and Land Mobile Radio networks takes priority. Oh, yeah. Everything is data there, too. First steps will be to take the box apart, add a header strip protection for a serial terminal, and a connector to replace the external antenna. Software replacement will be a bit longer as I need to study what's available and the hardware architecture.

73,
kevin
kc6pob

> --- On Tue, 9/22/09, Bill V WA7NWP <wa7nwp@...> wrote:
>
> > From: Bill V WA7NWP <wa7nwp@...>
> > Subject: [ntms-hsmm] Packet on WIFI
> > To: ntms-hsmm@yahoogroups.com
> > Date: Tuesday, September 22, 2009, 10:30 PM
> > Ok... All the magic
> > TCP data flow from a device like a a WRt54GL is
> > pretty cool - but it's a little lacking the 'the ham
> > factor.'

1553. Re: Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 12:32:22 UTC
From: whwallacemo1
Topic: 1537 Message: 1553

Group:
FYI I have a presentation to the Boeing Employees Radio Club here in St. Louis in November on HSMM-MESH. Should be fun.. It is great that I could pull a lot of good PowerPoint slides off the Wiki and customize them. I have been working on a general "What is HSMM for a week or so prior to asking to give the presentation to them. There will be several aerospace engineers, mostly electronics. Maybe someone will turn up to help the project. No one knew what HSMM was when I asked at the last meeting on Monday, so I asked if I could do a presentation.

Bill W

1554. Re: Packet on WIFI - Ham Factor - Yes!

Yahoo group: DAWG-HSMM
Date: 2009-09-23 12:45:39 UTC
From: whwallacemo1
Topic: 1537 Message: 1554

Kevin:

I think if you will look a little further down this board you will find that all this has been done for you on the Linksys WRT54XX series of routers and others. There is complete source code from Linksys available, Rewritten solftware for the router is available also as well as several great networking programs. Linksys had to release all their souce code because the used Linix for their OS and under the General License Agreement, they released it all and for years people have been hacking it to death for Part 97 use. AD5OO has a most extensive webpage on this as well as others.

Reading the prior posts may not be fun. I know I did it recently, but you will get an indication of what already has been done.

Bill Wallace KC0TGY

1555. Re: Packet on WIFI - Ham Factor - Yes!

Yahoo group: DAWG-HSMM
Date: 2009-09-23 12:55:59 UTC
From: whwallacemo1
Topic: 1537 Message: 1555

Kevin wrote
"First steps will be to take the box apart, add a header strip protection for a serial terminal, and a connector to replace the external antenna. Software replacement will be a bit longer as I need to study what's available and the hardware architecture"

Kevin:
you do not need a header strip for the router. use a cat5 cable from your computer to the router. They are all set up to do software uploads already. IE or Putty(available free software) gets you write into the router. No hardware changes needed. Don't even have to take the cover off.

I also do not understand why you would want to go back to a much slower, technology like packet for radio/winlink type stuff when you have internet type facilities and speed (Wifi 54 Mkbps and radio packed is 9600 baud at best). TTY? 15 baud is slightly slow, when these guys do a 10 page document in a couple of seconds....

But the project may be able to use all the help it can get and you sound like someone who could help.

Investigate the area and you will be amazed at what has been done already.. Keep in touch and ask questions Welcome

Bill Wallace KC0TGY

--- In ntms-hsmm@yahoogroups.com, "kc6pob" <kc6pob@...> wrote:
>
> Ham Factor - hmm. Rewriting pieces of software to extract new/additional features from COTS gear. Physically hacking the hardware to increase physical separation of the WiFi nodes or to find a way to slide between existing WiFi transmit frequencies for increased connection reliability. All in the quest to pass messages (voice, data, video) reliably from one point to another. I'd say that's Ham Factor.
>
> I've got a project in work (Netgear WGR614L (L as in linux)) that I am going to hack into. Might take a while as my day and night job of programming and integrating routers into cell phone and Land Mobile Radio networks takes priority. Oh, yeah. Everything is data there, too. First steps will be to take the box apart, add a header strip protection for a serial terminal, and a connector to replace the external antenna. Software replacement will be a bit longer as I need to study what's available and the hardware architecture.
>
> 73,
> kevin
> kc6pob
>
> > --- On Tue, 9/22/09, Bill V WA7NWP <wa7nwp@> wrote:
> >
> > > From: Bill V WA7NWP <wa7nwp@>

> > > Subject: [ntms-hsmm] Packet on WIFI
> > > To: ntms-hsmm@yahoogroups.com
> > > Date: Tuesday, September 22, 2009, 10:30 PM
> > > Ok... All the magic
> > > TCP data flow from a device like a a WRt54GL is
> > > pretty cool - but it's a little lacking the 'the ham
> > > factor.'
>

1556. Re: [ntms-hsmm] Re: Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 13:13:18 UTC
From: Kipton Moravec
Topic: 1537 Message: 1556

http://www.kdream.com/hsmm/HSMM_Seminar_August_22.pdf may help with your presentation.

Kip

On Wed, 2009-09-23 at 12:32 +0000, whwallacemo1 wrote:
> Group:
> FYI I have a presentation to the Boeing Employees Radio Club here in St. Louis in November on HSMM-MESH. Should be fun.. It is great that I could pull a lot of good PowerPoint slides off the Wiki and customize them. I have been working on a general "What is HSMM for a week or so prior to asking to give the presentation to them. There will be several aerospace engineers, mostly electronics. Maybe someone will turn up to help the project. No one knew what HSMM was when I asked at the last meeting on Monday, so I asked if I could do a presentation.
>
> Bill W
>
>
>
>
>
> ----------
>
> Yahoo! Groups Links
>
>
>
>
--

Kipton Moravec AE5IB .- . ... -...
==========
Four Way Test
Is it the Truth?
Is it Fair to all concerned?
Will it build Goodwill and Better Friendships?
Will it be Beneficial to all concerned?
- Herbert J Taylor (1932)

1557. Re: [ntms-hsmm] Re: Packet on WIFI - Ham Factor - Yes!

Yahoo group: DAWG-HSMM
Date: 2009-09-23 13:16:36 UTC
From: Robert Ellis
Topic: 1537 Message: 1557

On Sep 23, 2009, at 7:55 AM, whwallacemo1 wrote:

> I also do not understand why you would want to go back to a much
> slower, technology like packet for radio/winlink type stuff when you
> have internet type facilities and speed (Wifi 54 Mkbps and radio
> packed is 9600 baud at best). TTY? 15 baud is slightly slow, when
> these guys do a 10 page document in a couple of seconds....

Actually, higher packet rates are possible with modems like the tnc3s
(http://www.symek.com/g/tnc3s.html
), but buying that would be like spending $1500 on a pactor III modem.
(And you'd also need to get a special radio to drive the tnc3s.) I
guess that 2m packet has its place for nonLOS links...

robert

1558. RE: [ntms-hsmm] Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 14:36:17 UTC
From: Ron Cole
Topic: 1537 Message: 1558

Well I have not found a tty type client per say.

I have been useing Ekiga, its an Open Source VoIP, Video conferencing & IM Chat client. It does not have to connect to a server and will discover users on the local Network via broadcast messages.

http://www.ekiga.org/

Ron

--- On Wed, 9/23/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...> wrote:

> From: J. Gordon Beattie, Jr., W2TTT <w2ttt@...>
> Subject: RE: [ntms-hsmm] Packet on WIFI
> To: ntms-hsmm@yahoogroups.com
> Date: Wednesday, September 23, 2009, 12:32 AM
> Ron,
>
> Thanks for the pointer.
>
> Any good user applications such as tty to tty over IP
> applications or text
> messaging or an XP-based ftp server?
>
>
>
> Thanks & 73,
>
> Gordon Beattie, W2TTT
>
> 201.314.6964
>
>
>
> -----
>
> From: ntms-hsmm@yahoogroups.com
> [mailto:ntms-hsmm@yahoogroups.com]
> On Behalf
> Of Ron Cole
> Sent: Wednesday, September 23, 2009 4:55 AM
> To: ntms-hsmm@yahoogroups.com
> Subject: RE: [ntms-hsmm] Packet on WIFI
>
>
>

>
>
> Ping and iperf
> use jperf to get a GUI for iperf.
>
> As the Range goes up the C/I gets worse which means the
> speed goes down so
> jperf becomes the tool for the job.
>
> Ron
> N5HYH
>
> --- On Tue, 9/22/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...
> <mailto:w2ttt%40att.net> > wrote:
>
> > From: J. Gordon Beattie, Jr., W2TTT <w2ttt@...
> <mailto:w2ttt%40att.net> >
> > Subject: RE: [ntms-hsmm] Packet on WIFI
> > To: ntms-hsmm@yahoogrou
> <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> > Date: Tuesday, September 22, 2009, 11:46 PM
> > Hi Folks!
> >
> > I was wondering if I have two laptops in an ad hoc
> network,
> > or in a network
> > through a router, what simple applications can I use
> > between the two laptops
> > to check range between them or through a router?
>
> >
> > Any suggestions for XP users?
> >
> >
> >
> > Thanks & 73,
> >
> > Gordon Beattie, W2TTT
> >
> > 201.314.6964
> >
> >
> >
> >   _____
> >
> > From: ntms-hsmm@yahoogrou
> <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> > [mailto:ntms-hsmm@yahoogrou
> <mailto:ntms-hsmm%40yahoogroups.com> ps.com]
> > On Behalf

> > Of Kipton Moravec
> > Sent: Wednesday, September 23, 2009 4:30 AM
> > To: ntms-hsmm@yahoogrou
> <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> > Subject: Re: [ntms-hsmm] Packet on WIFI
> >
> >
> >
> >
> >
> > The WRT54GL does nave two logic level serial ports
> >
> > As Andy said, it is a little Linux Computer. If you
> wanted
> > you could
> > convert the Serial to RS-232 and then hook it to a TNC
> and
> > have a
> > program that converts the serial data to TCP/IP
> packets for
> > wired or
> > wireless transmission.
> >
> > The ham factor?
> > We change the SW to make it a mesh.
> > We add antennas to make it travel 5 or 10 miles or
> more I
> > have only
> > gotten 10 miles with a lot of Signal to Noise Ratio
> to
> > spare.
> >
> > Some friends are taking two of my units with 24 db
> gain
> > antennas and do
> > a range test in the next week or so. With 70 mw of
> power
> > they should be
> > able to go 140 miles. I will be happy if they can do
> 50
> > miles. The
> > biggest problem is getting line of sight for the
> range.
> >
> > That kind of range with a device designed for home or
> > office use? That
> > is ham radio.
> >
> > On Tue, 2009-09-22 at 20:30 -0700, Bill V WA7NWP
> wrote:

> > > Ok... All the magic TCP data flow from a device
> like a
> > a WRt54GL is
> > > pretty cool - but it's a little lacking the 'the
> ham
> > factor.'
> > >
> > > There's got to be a way, given we have the
> source, to
> > easily tweak the
> > > setup and essentially turn it into a packet
> (KISS?)
> > TNC and data
> > > radio. I know there are modes for monitoring the
> raw
> > packets. If we
> > > had some way to generate our own frames (like
> AX25
> > only something more
> > > modern and practical) that we can send with the
> 54G
> > (or ?) we could
> > > put the existing data/packet tools on top of this
> new
> > data layer.
> > > This would bring back all the Ham fun of looking
> for
> > DX packets, APRS,
> > > etc with a high speed yet cheap radio box. Maybe
> it
> > could even be
> > > done without affecting the existing data
> modes...
> > >
> > > How long is the SSID field? Maybe we would use
> that
> > for data?
> > >
> > > 73
> > > Bill - WA7NWP
> > >
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > --

> >
> > Kipton Moravec AE5IB .- . ... -...
> > ==========
> > Four Way Test
> > Is it the Truth?
> > Is it Fair to all concerned?
> > Will it build Goodwill and Better Friendships?
> > Will it be Beneficial to all concerned?
> > - Herbert J Taylor (1932)
> >
> >
> >
> >
> >
> >
> > _____ Information from ESET Smart Security,
> version of
> > virus signature
> > database 4448 (20090922) _____
> >
> >
> > The message was checked by ESET Smart Security.
> >
> >
> > http://www.eset. <http://www.eset.com> com
> >
> >
> >
> > _____ Information from ESET Smart Security,
> version of
> > virus signature
> > database 4448 (20090922) _____
> >
> > The message was checked by ESET Smart Security.
> >
> > http://www.eset. <http://www.eset.com> com
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> > mailto:ntms-hsmm-fullfeatu
> <mailto:ntms-hsmm-fullfeatured%40yahoogroups.com> red@yahoogroups.com

> >
> >
> >
>
>
>
>
> _____ Information from ESET Smart Security, version of
> virus signature
> database 4448 (20090922) _____
>
>
> The message was checked by ESET Smart Security.
>
>
> http://www.eset.com
>
>
>
> _____ Information from ESET Smart Security, version of
> virus signature
> database 4448 (20090922) _____
>
> The message was checked by ESET Smart Security.
>
> http://www.eset.com
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>   mailto:ntms-hsmm-fullfeatured@yahoogroups.com
>
>
>

1559. Re: [ntms-hsmm] Boeing Employees Radio Club

Yahoo group: DAWG-HSMM
Date: 2009-09-23 16:10:26 UTC
From: John Champa
Topic: 1559 Message: 1559

Bill,
That is great news! Thank you very much for the your effort in making the presentation.
Maybe HSMM will not remain Ham Radio's best kept secret for much longer (HI)

With the publication of Glenn and Lloyd's xtal mod,. slideband mod, xtal switch mod, etc. in the
next issue of *CQ VHF* magazine, we hope things really take off. For the first time Hams will
have an OFDM "spread spectrum" 2.4 GHz transceiver not on Part 15 channels, not visible by
any WiFi device we have found, and it's cheap too (HI).

I have some slides you are welcome to have, along with some presentations of others..
Just drop me a note off-line and I will forward them to you, if you wish (k8ocl@...).

Thanks and 73,
John K8OCL

k8ocl@...

On Wed, Sep 23, 2009 at 7:32 AM, whwallacemo1 <bill@...>wrote:

>
>
> Group:
> FYI I have a presentation to the Boeing Employees Radio Club here in St.
> Louis in November on HSMM-MESH. Should be fun.. It is great that I could
> pull a lot of good PowerPoint slides off the Wiki and customize them. I have
> been working on a general "What is HSMM for a week or so prior to asking to
> give the presentation to them. There will be several aerospace engineers,
> mostly electronics. Maybe someone will turn up to help the project. No one
> knew what HSMM was when I asked at the last meeting on Monday, so I asked if
> I could do a presentation.
>
> Bill W
>
>
>

--
Nisciune nasce imparate

"When you can measure what you are speaking about, and express it in numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1560. Re: [ntms-hsmm] Re: Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 16:31:41 UTC
From: Glenn Currie
Topic: 1537 Message: 1560

There is a lot of great stuff that can be done, inexpensively with HSMM gear.

That said, please realize that there are many, many different modes in ham radio, and HSMM is not everyone's cup of tea.

I wish I had more time and toy funds, as I have not found ANY aspect of ham radio that I do not find interesting - just not enough time and money to pursue them all.

Some folks just don't like messing with computers. I do it for a living and, believe me, I can see why they are unattractive to many. They can be very useful and interesting, when working, but at my day job, if they are working properly, they are not on my desk or work bench. Just keeping my own systems properly backed up, virus protected etc. is a time consuming, and I have hard disk crashes that are infuriating wastes of time, just like every one else.

On a positive side for the day job, as long as the hardware keeps breaking and the software always needs attention, I have work.

As for enjoyment, the computers can drive you crazy at times as they can screw up in countless ways - not my idea of fun.

But when you can get them working and get some cheap mass produced ham radio gear working in them, they can be very interesting. Right out of the box, if you run on channels 1 - 6 you can use a Wi-Fi device under Part-97 rules - that is, as a ham radio.

Hams often encourage the emergency services people to more fully integrate their communications systems for better interoperability. We we need to do this as hams as well, with all the different modes we have.

There was an excellent article by KL1Y in the March/April 2007 edition of QEX where he showed how he had integrated many digital modes. Remember some of the slower modes run on bands where the signal propagates very differently than on microwave. Some may be slower, but travel further with ease. Microwave has super bandwidth,but can be finicky with LOS requirements.
They are different tools and can fill a useful communications tool box.

Roderick D. Mitchell, KL1Y wrote the article:

The Integration of Amateur
Radio and 802.11
Amateur Radio and 802.11 wireless networking —
a good fit for emergency message delivery.
Roderick D. Mitchell, KL1Y

Where he shows cross linking traditional packet radio, Winlink 2000 and 802..11 based radios in one radio "system". I HIGHLY recommend the article. What he did could have been done years ago, but he actually did hook all this stuff up and

made it work and published an article on how to do it, in an ARRL publication.

So if you are looking into how to link packet and 802.11 etc. you would do well to read this article. The man really knows his stuff.

-Glenn
KD5MFW

--- On Wed, 9/23/09, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: Re: [ntms-hsmm] Re: Packet on WIFI
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, September 23, 2009, 8:13 AM

http://www.kdream. com/hsmm/ HSMM_Seminar_ August_22. pdf may help with your

presentation.

Kip

On Wed, 2009-09-23 at 12:32 +0000, whwallacemo1 wrote:

> Group:

> FYI I have a presentation to the Boeing Employees Radio Club here in St. Louis in November on HSMM-MESH. Should be fun.. It is great that I could pull a lot of good PowerPoint slides off the Wiki and customize them. I have been working on a general "What is HSMM for a week or so prior to asking to give the presentation to them. There will be several aerospace engineers, mostly electronics. Maybe someone will turn up to help the project. No one knew what HSMM was when I asked at the last meeting on Monday, so I asked if I could do a presentation.

>

> Bill W

>

>

>

>

>

> ---------- --------- --------- ------

>

> Yahoo! Groups Links

>

>

>

>

--

Kipton Moravec AE5IB .- . ... -...

========== ========= ========= ========= =======

Four Way Test

Is it the Truth?

Is it Fair to all concerned?

Will it build Goodwill and Better Friendships?

Will it be Beneficial to all concerned?

- Herbert J Taylor (1932)

[Non-text portions of this message have been removed]

1561. RE: [ntms-hsmm] Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 17:19:32 UTC
From: Dave
Topic: 1537 Message: 1561

Try OpenFire or TeamSpeak... Much better and easier to install. Both have video, chat, text, conferencing, voice. I run a system here and use it all the time. Easy to use. I suggest a standard platform be developed and we can put everything on one CD and distribute it; proven technology, setup screen, instructions and it works. Nothing *wrong* with you suggestion, just that these two, specifically OpenFire is great, proven tech.

Dave
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++++/

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Ron Cole
Sent: Wednesday, September 23, 2009 8:36 AM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Packet on WIFI

Well I have not found a tty type client per say.

I have been useing Ekiga, its an Open Source VoIP, Video conferencing & IM Chat client. It does not have to connect to a server and will discover users on the local Network via broadcast messages.

http://www.ekiga.org/

Ron

--- On Wed, 9/23/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...> wrote:

> From: J. Gordon Beattie, Jr., W2TTT <w2ttt@...>
> Subject: RE: [ntms-hsmm] Packet on WIFI
> To: ntms-hsmm@yahoogroups.com
> Date: Wednesday, September 23, 2009, 12:32 AM Ron,
>
> Thanks for the pointer.
>
> Any good user applications such as tty to tty over IP applications or
> text messaging or an XP-based ftp server?
>
>
>
> Thanks & 73,
>
> Gordon Beattie, W2TTT
>
> 201.314.6964

>
>
>
> -----
>
> From: ntms-hsmm@yahoogroups.com
> [mailto:ntms-hsmm@yahoogroups.com]
> On Behalf
> Of Ron Cole
> Sent: Wednesday, September 23, 2009 4:55 AM
> To: ntms-hsmm@yahoogroups.com
> Subject: RE: [ntms-hsmm] Packet on WIFI
>
>
>
>
>
> Ping and iperf
> use jperf to get a GUI for iperf.
>
> As the Range goes up the C/I gets worse which means the speed goes
> down so jperf becomes the tool for the job.
>
> Ron
> N5HYH
>
> --- On Tue, 9/22/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...
> <mailto:w2ttt%40att.net> > wrote:
>
> > From: J. Gordon Beattie, Jr., W2TTT <w2ttt@att.net
> <mailto:w2ttt%40att.net> >
> > Subject: RE: [ntms-hsmm] Packet on WIFI
> > To: ntms-hsmm@yahoogrou
> <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> > Date: Tuesday, September 22, 2009, 11:46 PM Hi Folks!
> >
> > I was wondering if I have two laptops in an ad hoc
> network,
> > or in a network
> > through a router, what simple applications can I use between the two
> > laptops to check range between them or through a router?
>
> >
> > Any suggestions for XP users?
> >
> >
> >
> > Thanks & 73,
> >
> > Gordon Beattie, W2TTT

> >
> > 201.314.6964
> >
> >
> >
> > _____
> >
> > From: ntms-hsmm@yahoogrou
> <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> > [mailto:ntms-hsmm@yahoogrou
> <mailto:ntms-hsmm%40yahoogroups.com> ps.com]
> > On Behalf
> > Of Kipton Moravec
> > Sent: Wednesday, September 23, 2009 4:30 AM
> > To: ntms-hsmm@yahoogrou
> <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> > Subject: Re: [ntms-hsmm] Packet on WIFI
> >
> >
> >
> >
> >
> > The WRT54GL does nave two logic level serial ports
> >
> > As Andy said, it is a little Linux Computer. If you
> wanted
> > you could
> > convert the Serial to RS-232 and then hook it to a TNC
> and
> > have a
> > program that converts the serial data to TCP/IP
> packets for
> > wired or
> > wireless transmission.
> >
> > The ham factor?
> > We change the SW to make it a mesh.
> > We add antennas to make it travel 5 or 10 miles or
> more I
> > have only
> > gotten 10 miles with a lot of Signal to Noise Ratio
> to
> > spare.
> >
> > Some friends are taking two of my units with 24 db
> gain
> > antennas and do
> > a range test in the next week or so. With 70 mw of
> power
> > they should be

> > able to go 140 miles. I will be happy if they can do
> 50
> > miles. The
> > biggest problem is getting line of sight for the
> range.
> >
> > That kind of range with a device designed for home or office use?
> > That is ham radio.
> >
> > On Tue, 2009-09-22 at 20:30 -0700, Bill V WA7NWP
> wrote:
> > > Ok... All the magic TCP data flow from a device
> like a
> > a WRt54GL is
> > > pretty cool - but it's a little lacking the 'the
> ham
> > factor.'
> > >
> > > There's got to be a way, given we have the
> source, to
> > easily tweak the
> > > setup and essentially turn it into a packet
> (KISS?)
> > TNC and data
> > > radio. I know there are modes for monitoring the
> raw
> > packets. If we
> > > had some way to generate our own frames (like
> AX25
> > only something more
> > > modern and practical) that we can send with the
> 54G
> > (or ?) we could
> > > put the existing data/packet tools on top of this
> new
> > data layer.
> > > This would bring back all the Ham fun of looking
> for
> > DX packets, APRS,
> > > etc with a high speed yet cheap radio box. Maybe
> it
> > could even be
> > > done without affecting the existing data
> modes...
> > >
> > > How long is the SSID field? Maybe we would use
> that
> > for data?
> > >
> > > 73

> > > Bill - WA7NWP
> > >
> > >
> > > ----------
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > --
> >
> > Kipton Moravec AE5IB .- . ... -...
> > ==========
> > Four Way Test
> > Is it the Truth?
> > Is it Fair to all concerned?
> > Will it build Goodwill and Better Friendships?
> > Will it be Beneficial to all concerned?
> > - Herbert J Taylor (1932)
> >
> >
> >
> >
> >
> >
> > _____ Information from ESET Smart Security,
> version of
> > virus signature
> > database 4448 (20090922) _____
> >
> >
> > The message was checked by ESET Smart Security.
> >
> >
> > http://www.eset. <http://www.eset.com> com
> >
> >
> >
> > _____ Information from ESET Smart Security,
> version of
> > virus signature
> > database 4448 (20090922) _____
> >
> > The message was checked by ESET Smart Security.
> >
> > http://www.eset. <http://www.eset.com> com
> >
> >
> >

> > [Non-text portions of this message have been removed]
> >
> >
> >
> > ----------
> >
> > Yahoo! Groups Links
> >
> >
> >   mailto:ntms-hsmm-fullfeatu
> <mailto:ntms-hsmm-fullfeatured%40yahoogroups.com> red@yahoogroups.com
> >
> >
> >
>
>
>
>
> __________ Information from ESET Smart Security, version of virus
> signature database 4448 (20090922) __________
>
>
> The message was checked by ESET Smart Security.
>
>
> http://www.eset.com
>
>
>
> __________ Information from ESET Smart Security, version of virus
> signature database 4448 (20090922) __________
>
> The message was checked by ESET Smart Security.
>
> http://www.eset.com
>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> ----------
>
> Yahoo! Groups Links
>
>
>   mailto:ntms-hsmm-fullfeatured@yahoogroups.com
>
>

>

Yahoo! Groups Links

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.112/2390 - Release Date: 09/23/09 05:52:00

[Non-text portions of this message have been removed]

1562. Re: [ntms-hsmm] Re: Packet on WIFI - Ham Factor - Yes!

Yahoo group: DAWG-HSMM
Date: 2009-09-23 21:27:45 UTC
From: kevin asato
Topic: 1537 Message: 1562

Bill,

Thanks for the advice. I have already gone through some of the prior work on this list and also through myopenrouter.com and am familiar with some of the work going on there.
The Netgear hit a particular price point with me ($50) and I just wanted to hack both hardware and software of a slightly different platform. Just one of my quirks.

I like to use a (keyed) header strip to keep things neat on the inside (also passes spec when going through airports with this unit tucked into my backpack - TSA hates loose wires hanging from boards!). Also adding 3.3V zener diodes to protect the RS-232 pins which are at the low power end of the TTL spec, then determining what is needed to keep the unit battery powered (how low can you go?, even POE). Then on to see what is required to host new software features. I'm not worried about time as this is to be a leisure time activity in my copious amounts of spare time these days (I am lucky as I have family obligations and 50-60 hour work weeks). I do plan on documenting the work as I proceed. It just may take a while. Then again, isn't this what it's all about?

73,
kevin
kc6pob

[Non-text portions of this message have been removed]

1563. Re: [ntms-hsmm] Re: Packet on WIFI - Ham Factor - Yes!

Yahoo group: DAWG-HSMM
Date: 2009-09-23 21:34:36 UTC
From: kevin asato
Topic: 1537 Message: 1563

The serial port would be my debug port. There will be times when there are issues that will not be visible from the Ethernet connectors. Least that is what I am expecting. My bias is working in a development and integration environment where one uses any means possible for gaining visibility into a system.

kevin

--- On Wed, 9/23/09, whwallacemo1 <bill@findmarian-bill.info> wrote:

From: whwallacemo1 <bill@...>
Subject: [ntms-hsmm] Re: Packet on WIFI - Ham Factor - Yes!
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, September 23, 2009, 5:55 AM

Kevin wrote

"First steps will be to take the box apart, add a header strip protection for a serial terminal, and a connector to replace the external antenna. Software replacement will be a bit longer as I need to study what's available and the hardware architecture"

Kevin:

you do not need a header strip for the router. use a cat5 cable from your computer to the router. They are all set up to do software uploads already. IE or Putty(available free software) gets you write into the router. No hardware changes needed. Don't even have to take the cover off.

[Non-text portions of this message have been removed]

1564. Re: [ntms-hsmm] Re: Packet on WIFI - Ham Factor - Yes!

Yahoo group: DAWG-HSMM
Date: 2009-09-23 21:49:16 UTC
From: Kipton Moravec
Topic: 1537 Message: 1564

Do not forget that on the WRT54GL 10 pin header there are 2 serial ports. tty0 is defaulted to a console port. I am not sure about the other, tty1.

Kip

On Wed, 2009-09-23 at 14:34 -0700, kevin asato wrote:
> The serial port would be my debug port. There will be times when there are issues that will not be visible from the Ethernet connectors. Least that is what I am expecting. My bias is working in a development and integration environment where one uses any means possible for gaining visibility into a system.
>
> kevin
>
> --- On Wed, 9/23/09, whwallacemo1 <bill@...> wrote:
>
> From: whwallacemo1 <bill@...>
> Subject: [ntms-hsmm] Re: Packet on WIFI - Ham Factor - Yes!
> To: ntms-hsmm@yahoogroups.com
> Date: Wednesday, September 23, 2009, 5:55 AM
>
>
>
>
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>
>
>
>
>
>
> Kevin wrote
>
> "First steps will be to take the box apart, add a header strip protection for a serial terminal, and a connector to replace the external antenna. Software replacement will be a bit longer as I need to study what's available and the hardware architecture"
>
>
>
> Kevin:
>
> you do not need a header strip for the router. use a cat5 cable from your computer to the router. They are all set up to do software uploads already. IE or Putty(available free software) gets you write into the router. No hardware changes needed. Don't even have to

take the cover off.
>
>
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
--

Kipton Moravec AE5IB .- . ... -...
==========
Four Way Test
Is it the Truth?
Is it Fair to all concerned?
Will it build Goodwill and Better Friendships?
Will it be Beneficial to all concerned?
- Herbert J Taylor (1932)

1565. RE: [ntms-hsmm] Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-23 22:42:08 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 1537 Message: 1565

Ron,

Many thanks!

I will try it!

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Ron Cole
Sent: Wednesday, September 23, 2009 2:36 PM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Packet on WIFI

Well I have not found a tty type client per say.

I have been useing Ekiga, its an Open Source VoIP, Video conferencing & IM Chat client. It does not have to connect to a server and will discover users on the local Network via broadcast messages.

http://www.ekiga. <http://www.ekiga.org/> org/

Ron

--- On Wed, 9/23/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@... <mailto:w2ttt%40att.net> > wrote:

> From: J. Gordon Beattie, Jr., W2TTT <w2ttt@... <mailto:w2ttt%40att.net> >
> Subject: RE: [ntms-hsmm] Packet on WIFI
> To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> Date: Wednesday, September 23, 2009, 12:32 AM
> Ron,
>
> Thanks for the pointer.
>
> Any good user applications such as tty to tty over IP
> applications or text
> messaging or an XP-based ftp server?
>
>
>

> Thanks & 73,
>
> Gordon Beattie, W2TTT
>
> 201.314.6964
>
>
>
> _____
>
> From: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> [mailto:ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com]
> On Behalf
> Of Ron Cole
> Sent: Wednesday, September 23, 2009 4:55 AM
> To: ntms-hsmm@yahoogrou <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> Subject: RE: [ntms-hsmm] Packet on WIFI
>
>
>
>
>
> Ping and iperf
> use jperf to get a GUI for iperf.
>
> As the Range goes up the C/I gets worse which means the
> speed goes down so
> jperf becomes the tool for the job.
>
> Ron
> N5HYH
>
> --- On Tue, 9/22/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...
<mailto:w2ttt%40att.net>
> <mailto:w2ttt%40att.net> > wrote:
>
> > From: J. Gordon Beattie, Jr., W2TTT <w2ttt@...
<mailto:w2ttt%40att.net>
> <mailto:w2ttt%40att.net> >
> > Subject: RE: [ntms-hsmm] Packet on WIFI
> > To: ntms-hsmm@yahoogrou
> <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> > Date: Tuesday, September 22, 2009, 11:46 PM
> > Hi Folks!
> >
> > I was wondering if I have two laptops in an ad hoc
> network,
> > or in a network
> > through a router, what simple applications can I use
> > between the two laptops

> > to check range between them or through a router?
>
> >
> > Any suggestions for XP users?
> >
> >
> >
> > Thanks & 73,
> >
> > Gordon Beattie, W2TTT
> >
> > 201.314.6964
> >
> >
> >
> > _____
> >
> > From: ntms-hsmm@yahoogrou
> <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> > [mailto:ntms-hsmm@yahoogrou
> <mailto:ntms-hsmm%40yahoogroups.com> ps.com]
> > On Behalf
> > Of Kipton Moravec
> > Sent: Wednesday, September 23, 2009 4:30 AM
> > To: ntms-hsmm@yahoogrou
> <mailto:ntms-hsmm%40yahoogroups.com> ps.com
> > Subject: Re: [ntms-hsmm] Packet on WIFI
> >
> >
> >
> >
> >
> > The WRT54GL does nave two logic level serial ports
> >
> > As Andy said, it is a little Linux Computer. If you
> wanted
> > you could
> > convert the Serial to RS-232 and then hook it to a TNC
> and
> > have a
> > program that converts the serial data to TCP/IP
> packets for
> > wired or
> > wireless transmission.
> >
> > The ham factor?
> > We change the SW to make it a mesh.
> > We add antennas to make it travel 5 or 10 miles or
> more I
> > have only

> > gotten 10 miles with a lot of Signal to Noise Ratio
> to
> > spare.
> >
> > Some friends are taking two of my units with 24 db
> gain
> > antennas and do
> > a range test in the next week or so. With 70 mw of
> power
> > they should be
> > able to go 140 miles. I will be happy if they can do
> 50
> > miles. The
> > biggest problem is getting line of sight for the
> range.
> >
> > That kind of range with a device designed for home or
> > office use? That
> > is ham radio.
> >
> > On Tue, 2009-09-22 at 20:30 -0700, Bill V WA7NWP
> wrote:
> > > Ok... All the magic TCP data flow from a device
> like a
> > a WRt54GL is
> > > pretty cool - but it's a little lacking the 'the
> ham
> > factor.'
> > >
> > > There's got to be a way, given we have the
> source, to
> > easily tweak the
> > > setup and essentially turn it into a packet
> (KISS?)
> > TNC and data
> > > radio. I know there are modes for monitoring the
> raw
> > packets. If we
> > > had some way to generate our own frames (like
> AX25
> > only something more
> > > modern and practical) that we can send with the
> 54G
> > (or ?) we could
> > > put the existing data/packet tools on top of this
> new
> > data layer.
> > > This would bring back all the Ham fun of looking
> for
> > DX packets, APRS,

> > > etc with a high speed yet cheap radio box. Maybe
> it
> > could even be
> > > done without affecting the existing data
> modes...
> > >
> > > How long is the SSID field? Maybe we would use
> that
> > for data?
> > >
> > > 73
> > > Bill - WA7NWP
> > >
> > >
> > > ---
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > >
> > >
> > --
> >
> > Kipton Moravec AE5IB .- . ... -...
> > ==========
> > Four Way Test
> > Is it the Truth?
> > Is it Fair to all concerned?
> > Will it build Goodwill and Better Friendships?
> > Will it be Beneficial to all concerned?
> > - Herbert J Taylor (1932)
> >
> >
> >
> >
> >
> >
> > _____ Information from ESET Smart Security,
> version of
> > virus signature
> > database 4448 (20090922) _____
> >
> >
> > The message was checked by ESET Smart Security.
> >
> >
> > http://www.eset. <http://www.eset. <http://www.eset.com> com> com
> >
> >
> >

> > _____ Information from ESET Smart Security,
> version of
> > virus signature
> > database 4448 (20090922) _____
> >
> > The message was checked by ESET Smart Security.
> >
> > http://www.eset. <http://www.eset. <http://www.eset.com> com> com
> >
> >
> >
> > [Non-text portions of this message have been removed]
> >
> >
> >
> > ---
> >
> > Yahoo! Groups Links
> >
> >
> > mailto:ntms-hsmm-fullfeatu
> <mailto:ntms-hsmm-fullfeatured%40yahoogroups.com> red@yahoogroups.
<mailto:red%40yahoogroups.com> com
> >
> >
> >
>
>
>
>
> _____ Information from ESET Smart Security, version of
> virus signature
> database 4448 (20090922) _____
>
>
> The message was checked by ESET Smart Security.
>
>
> http://www.eset. <http://www.eset.com> com
>
>
>
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> database 4448 (20090922) _____
>
> The message was checked by ESET Smart Security.
>
> http://www.eset. <http://www.eset.com> com
>

>
>
> [Non-text portions of this message have been removed]
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>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:ntms-hsmm-fullfeatu
<mailto:ntms-hsmm-fullfeatured%40yahoogroups.com> red@yahoogroups.com
>
>
>

_____ Information from ESET Smart Security, version of virus signature database 4450 (20090923) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 4451 (20090923) _____

The message was checked by ESET Smart Security.

http://www.eset.com

[Non-text portions of this message have been removed]

1566. RE: [ntms-hsmm] Re: Packet on WIFI - Ham Factor - Yes!

Yahoo group: DAWG-HSMM
Date: 2009-09-24 00:10:21 UTC
From: WILLIAM WALLACE
Topic: 1537 Message: 1566

Robert: For that much money put 6 nodes in the local church steeples and you have 50 miles of distance... Just mouthing off.
Bill Wallace KC0TGY

[Non-text portions of this message have been removed]

1567. RE: [ntms-hsmm] Re: Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-24 00:15:49 UTC
From: WILLIAM WALLACE
Topic: 1537 Message: 1567

Kip I got it sorry.....
Bill W

[Non-text portions of this message have been removed]

1568. Re: [ntms-hsmm] Re: Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-24 00:27:59 UTC
From: John Barrett
Topic: 1537 Message: 1568

I know the conversation has moved away from this idea, but just an FYI, I did a quick rip through the DDWRT code last year thinking about this same idea, and there really isn't a place to patch in and just use the radio without the IP handling. As best as I could determine, a lot of the IP framework is in the hardware and not able to be easily bypassed by the firmware.

WILLIAM WALLACE wrote:
>
>
> Kip I got it sorry.....
> Bill W
>
> [Non-text portions of this message have been removed]
>
>

1569. RE: [ntms-hsmm] Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-09-24 05:42:42 UTC
From: Glenn Currie
Topic: 1537 Message: 1569

Great! sounds like just the application I have been looking for. So nice to have others scanning the net for good stuff.

Thanks,

-Glenn

--- On Wed, 9/23/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...> wrote:

From: J. Gordon Beattie, Jr., W2TTT <w2ttt@...>
Subject: RE: [ntms-hsmm] Packet on WIFI
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, September 23, 2009, 5:42 PM

Ron,

Many thanks!

I will try it!

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com] On Behalf

Of Ron Cole

Sent: Wednesday, September 23, 2009 2:36 PM

To: ntms-hsmm@yahoogrou ps.com

Subject: RE: [ntms-hsmm] Packet on WIFI

Well I have not found a tty type client per say.

I have been useing Ekiga, its an Open Source VoIP, Video conferencing & IM

Chat client. It does not have to connect to a server and will discover users

on the local Network via broadcast messages.

http://www.ekiga. <http://www.ekiga. org/> org/

Ron

--- On Wed, 9/23/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...

<mailto:w2ttt% 40att.net> > wrote:

> From: J. Gordon Beattie, Jr., W2TTT <w2ttt@...

<mailto:w2ttt% 40att.net> >

> Subject: RE: [ntms-hsmm] Packet on WIFI

> To: ntms-hsmm@yahoogrou <mailto:ntms- hsmm%40yahoogrou ps.com> ps.com

> Date: Wednesday, September 23, 2009, 12:32 AM

> Ron,

>

> Thanks for the pointer.

>

> Any good user applications such as tty to tty over IP

> applications or text

> messaging or an XP-based ftp server?

>

>

>

> Thanks & 73,

>

> Gordon Beattie, W2TTT

>

> 201.314.6964

>

>

>

> _____

>

> From: ntms-hsmm@yahoogrou <mailto:ntms- hsmm%40yahoogrou ps.com> ps.com

> [mailto:ntms- hsmm@yahoogrou <mailto:ntms- hsmm%40yahoogrou ps.com> ps..com]

> On Behalf

> Of Ron Cole

> Sent: Wednesday, September 23, 2009 4:55 AM

> To: ntms-hsmm@yahoogrou <mailto:ntms- hsmm%40yahoogrou ps.com> ps.com

> Subject: RE: [ntms-hsmm] Packet on WIFI

>

>

>

>

>

> Ping and iperf

> use jperf to get a GUI for iperf.

>

> As the Range goes up the C/I gets worse which means the

> speed goes down so

> jperf becomes the tool for the job.

>

> Ron

> N5HYH

>

> --- On Tue, 9/22/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...

<mailto:w2ttt% 40att.net>

> <mailto:w2ttt% 40att.net> > wrote:

>

> > From: J. Gordon Beattie, Jr., W2TTT <w2ttt@...

<mailto:w2ttt% 40att.net>

> <mailto:w2ttt% 40att.net> >

> > Subject: RE: [ntms-hsmm] Packet on WIFI

> > To: ntms-hsmm@yahoogrou

> <mailto:ntms- hsmm%40yahoogrou ps.com> ps.com

> > Date: Tuesday, September 22, 2009, 11:46 PM

> > Hi Folks!

> >

> > I was wondering if I have two laptops in an ad hoc

> network,

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> > through a router, what simple applications can I use

> > between the two laptops

> > to check range between them or through a router?

>

> >

> > Any suggestions for XP users?

> >

> >

> >

> > Thanks & 73,

> >

> > Gordon Beattie, W2TTT

> >

> > 201.314.6964

> >

> >

> >

> > _____

> >

> > From: ntms-hsmm@yahoogrou

> <mailto:ntms- hsmm%40yahoogrou ps.com> ps.com

> > [mailto:ntms- hsmm@yahoogrou

> <mailto:ntms- hsmm%40yahoogrou ps.com> ps.com]

> > On Behalf

> > Of Kipton Moravec

> > Sent: Wednesday, September 23, 2009 4:30 AM

> > To: ntms-hsmm@yahoogrou

> <mailto:ntms- hsmm%40yahoogrou ps.com> ps.com

> > Subject: Re: [ntms-hsmm] Packet on WIFI

> >

> >

> >

> >

> >

> > The WRT54GL does nave two logic level serial ports

> >

> > As Andy said, it is a little Linux Computer. If you

> wanted

> > you could

> > convert the Serial to RS-232 and then hook it to a TNC

> and

> > have a

> > program that converts the serial data to TCP/IP

> packets for

> > wired or

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> >

> > The ham factor?

> > We change the SW to make it a mesh.

> > We add antennas to make it travel 5 or 10 miles or

> more I

> > have only

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> >

> > Some friends are taking two of my units with 24 db

> gain

> > antennas and do

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> > they should be

> > able to go 140 miles. I will be happy if they can do

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> >

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> > office use? That

> > is ham radio.

> >

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> wrote:

> > > Ok... All the magic TCP data flow from a device

> like a

> > a WRt54GL is

> > > pretty cool - but it's a little lacking the 'the

> ham

> > factor.'

> > >

> > > There's got to be a way, given we have the

> source, to

> > easily tweak the

> > > setup and essentially turn it into a packet

> (KISS?)

> > TNC and data

> > > radio. I know there are modes for monitoring the

> raw

> > packets. If we

> > > had some way to generate our own frames (like

> AX25

> > only something more

> > > modern and practical) that we can send with the

> 54G

> > (or ?) we could

> > > put the existing data/packet tools on top of this

> new

> > data layer.

> > > This would bring back all the Ham fun of looking

> for

> > DX packets, APRS,

> > > etc with a high speed yet cheap radio box. Maybe

> it

> > could even be

> > > done without affecting the existing data

> modes...

> > >

> > > How long is the SSID field? Maybe we would use

> that

> > for data?

> > >

> > > 73

> > > Bill - WA7NWP

> > >

> > >

> > > ---------- --------- --------- ------

> > >

> > > Yahoo! Groups Links

> > >

> > >

> > >

> > >

> > --

> >

> > Kipton Moravec AE5IB .- . ... -...

> > ========== ========= ========= ========= =======

> > Four Way Test

> > Is it the Truth?

> > Is it Fair to all concerned?

> > Will it build Goodwill and Better Friendships?

> > Will it be Beneficial to all concerned?

> > - Herbert J Taylor (1932)

> >

> >

> >

> >

> >

> >

> > _____ Information from ESET Smart Security,

> version of

> > virus signature

> > database 4448 (20090922) _____

> >

> >

> > The message was checked by ESET Smart Security.

> >

> >

> > http://www.eset. <http://www.eset. <http://www.eset. com> com> com

> >

> >

> >

> > _____ Information from ESET Smart Security,

> version of

> > virus signature

> > database 4448 (20090922) _____

> >

> > The message was checked by ESET Smart Security.

> >

> > http://www.eset. <http://www.eset. <http://www.eset. com> com> com

> >

> >

> >

> > [Non-text portions of this message have been removed]

> >

> >

> >

> > ---------- --------- --------- ------

> >

> > Yahoo! Groups Links

> >

> >

> > mailto:ntms- hsmm-fullfeatu

> <mailto:ntms- hsmm-fullfeature d%40yahoogroups. com> red@yahoogroups.

<mailto:red% 40yahoogroups. com> com

> >

> >

> >

>

>

>

>

> _____ Information from ESET Smart Security, version of

> virus signature

> database 4448 (20090922) _____

>

>

> The message was checked by ESET Smart Security.

>

>

> http://www.eset. <http://www.eset. com> com

>

>

>

> _____ Information from ESET Smart Security, version of

> virus signature

> database 4448 (20090922) __________

>

> The message was checked by ESET Smart Security.

>

> http://www.eset. <http://www.eset. com> com

>

>

>

> [Non-text portions of this message have been removed]

>

>

>

> ------------ --------- --------- ------

>

> Yahoo! Groups Links

>

>

> mailto:ntms- hsmm-fullfeatu

<mailto:ntms- hsmm-fullfeature d%40yahoogroups. com> red@yahoogroups. com

>

>

>

__________ Information from ESET Smart Security, version of virus signature

database 4450 (20090923) __________

The message was checked by ESET Smart Security.

http://www.eset. com

__________ Information from ESET Smart Security, version of virus signature

database 4451 (20090923) __________

The message was checked by ESET Smart Security.

http://www.eset. com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1570. [Fwd: Sale Announcement]

Yahoo group: DAWG-HSMM
Date: 2009-09-24 14:33:28 UTC
From: Kilgore
Topic: 1570 Message: 1570

```
-------- Original Message --------
Subject: Announcement
Date: Thu, 24 Sep 2009 08:01:42 -0500
From: Robert <w5@...>

Please assist in communicating the following announcement to local hams;

This Saturday, 9/26 from 7:30AM - 12:30PM, W5IUA and N5IUA will have a
garage sale in Parker, the address is 4307 Countryside Drive. W5IUA
was laid off from his job last week, and extra cash from the sale
proceeds will come in handy. The sale will include numerous ham radio
and computer items.

Thanks & 73...Robert
```

1571. Re: [ntms-hsmm] [Fwd: Sale Announcement]

Yahoo group: DAWG-HSMM
Date: 2009-09-24 18:37:28 UTC
From: John Barrett
Topic: 1570 Message: 1571

any decent dual band mobile or dstar gear or an FT857 ?? I need to get
my new vehicle loaded up with radios :) If you got any of this, I'd like
a chance to get at it before the weekend.

Kilgore wrote:
>
>
>
>
> -------- Original Message --------
> Subject: Announcement
> Date: Thu, 24 Sep 2009 08:01:42 -0500
> From: Robert <w5@... <mailto:w5%40iua2.net>>
>
> Please assist in communicating the following announcement to local hams;
>
> This Saturday, 9/26 from 7:30AM - 12:30PM, W5IUA and N5IUA will have a
> garage sale in Parker, the address is 4307 Countryside Drive. W5IUA
> was laid off from his job last week, and extra cash from the sale
> proceeds will come in handy. The sale will include numerous ham radio
> and computer items.
>
> Thanks & 73...Robert
>
>

1572. Re: [ntms-hsmm] [Fwd: Sale Announcement]

Yahoo group: DAWG-HSMM
Date: 2009-09-24 21:18:28 UTC
From: Kilgore
Topic: 1570 Message: 1572

Please contact Robert directly at the email address shown w5@...
<mailto:w5%40iua2.net>

Doug

John Barrett wrote:
>
>
> any decent dual band mobile or dstar gear or an FT857 ?? I need to get
> my new vehicle loaded up with radios :) If you got any of this, I'd like
> a chance to get at it before the weekend.
>
> Kilgore wrote:
> >
> >
> >
> >
> > -------- Original Message --------
> > Subject: Announcement
> > Date: Thu, 24 Sep 2009 08:01:42 -0500
> > From: Robert <w5@... <mailto:w5%40iua2.net> <mailto:w5%40iua2.net>>
> >
> > Please assist in communicating the following announcement to local hams;
> >
> > This Saturday, 9/26 from 7:30AM - 12:30PM, W5IUA and N5IUA will have a
> > garage sale in Parker, the address is 4307 Countryside Drive. W5IUA
> > was laid off from his job last week, and extra cash from the sale
> > proceeds will come in handy. The sale will include numerous ham radio
> > and computer items.
> >
> > Thanks & 73...Robert
> >
> >
>
>

1573. Re: APPROVE -- kc0qmu@sbcglobal.net wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-25 04:48:37 UTC
From: Kilgore
Topic: 1573 Message: 1573

Yahoo! Groups Notification wrote:
> Hello,
>
> The following person would like to join the ntms-hsmm group:
> Email address: kc0qmu@... <kc0qmu@...>
>
> Comment from user:
> I am the Emergency Coordinator for the St. Louis County, Missouri ARES
> group. We have one of our ARES members that sent your powerpoint
> presentation around and we now all all interested in this.
>
>

1574. Re: APPROVE -- kc0qmu@sbcglobal.net wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-26 01:25:05 UTC
From: whwallacemo1
Topic: 1573 Message: 1574

I gave Steve the Presentation. Some of it is even original... I know him and he is a good guy.

If you let him in, tell him I said HI!!!!

Bill Wallace, Your new and developing public webmaster KC0TGY

1575. Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-27 20:27:11 UTC
From: Kilgore
Topic: 1575 Message: 1575

Yahoo! Groups Notification wrote:
> Hello,
>
> The following person would like to join the ntms-hsmm group:
> Email address: longtermbond <n2ltq@...>
>
> Comment from user:
> i am interested in using HSMM as a backbone for a dstar repeater
> network.
>
>

1576. Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-27 21:05:25 UTC
From: whwallacemo1
Topic: 1575 Message: 1576

I guess this is why we are trying to get a public web site up and running for these types of inquiries. We can direct them to the new site and we can use this site as a developmental coordination site. When we get the new site up, we will all have to remember to direct inquiries to the new site and we will not have to bother anyone to allow access.

I have added more to the web site last night. I am beginning to add the information someone asked for concerning adding the software and instructions for using it over to the public site. Some additional information has also been added. TAKE A LOOK AT IT. WWW.IM4EXYZ.ORG Soon I am going to be porting the actual software over. The shell is already there to hold it. I already have the instructions over and that is the reason for the next paragraph.

I am becomming concerned that some of the information on the wiki is 2 or 3 years old and conflicts with newer instructions. I would appreciate it, if you put something on the wiki before, please take a a minute to look at the wiki and update any information you provided to the most current conditions, configuration information, suggestions, etc. Version 3 does not have "Documentation" yet. Please, if you update any information on the wiki, let me know about it, and I will move it over to the new public web site.

I have also started a project to identify appropriate software for VoIP, Video streaming, e-mail, and file transfers. I am collecting and analysing data from searching the internet stage. If anyone has any comments start a new topic and help me.

Thank you

Bill W KC0TGY

1577. RE: [ntms-hsmm] Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 00:37:24 UTC
From: Dave
Topic: 1575 Message: 1577

Thanks; good job. The group needs to have a place to call home and place instructions, etc.

Take a look at Openfire/Spark and TeamSpeak. Openfire/Spark allow VoIP, conferencing, multiple video.. Etc. TeamSpeak is a really nice VoIP app. PHP and easy to run, install, admin.

Dave
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++++/

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of whwallacemo1
Sent: Sunday, September 27, 2009 15:05
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re:-- longtermbond <n2ltq@...> wants to join ntms-hsmm

I guess this is why we are trying to get a public web site up and running for these types of inquiries. We can direct them to the new site and we can use this site as a developmental coordination site. When we get the new site up, we will all have to remember to direct inquiries to the new site and we will not have to bother anyone to allow access.

I have added more to the web site last night. I am beginning to add the information someone asked for concerning adding the software and instructions for using it over to the public site. Some additional information has also been added. TAKE A LOOK AT IT. WWW.IM4EXYZ.ORG Soon I am going to be porting the actual software over. The shell is already there to hold it. I already have the instructions over and that is the reason for the next paragraph.

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I have also started a project to identify appropriate software for VoIP, Video streaming, e-mail, and file transfers. I am collecting and analysing data from searching the internet stage. If anyone has any comments start a new topic and help me.

Thank you

Bill W KC0TGY

Yahoo! Groups Links

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.113/2398 - Release Date: 09/27/09 05:51:00

[Non-text portions of this message have been removed]

1578. RE: [ntms-hsmm] Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 01:04:11 UTC
From: WILLIAM WALLACE
Topic: 1575 Message: 1578

Thanks Dave. I will look at them tonight.
Someone needs to get out front over the developers and have some software set up to run on HSMM-MESH (trade marked) when they are finished. When they get finished with the hardware, I want to have something that will work to drop on top of it that works for the "Served Agency". At least, the effort will give them something to look at and take exception to.. then make it better.

Bill Wallace KC0TGY

[Non-text portions of this message have been removed]

1579. Re: [ntms-hsmm] Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 01:12:11 UTC
From: Glenn Currie
Topic: 1575 Message: 1579

Yes,

We need to get the public web site up soon. It would be most helpful.
The request for review of existing information on the wiki is understandable.

The basic information on the version 3 HSMM-MESH code is pretty current. There
is a quit a bit of older stuff on the wiki, but the instructions on loading the version 3
firmware is in pretty good shape, I think.

Dealing with all the informaiton we have collected over the last 8 years is quite a task.
I currently have a 64GB USB memory stick on a lanyard around my neck that is
almost full and it is all HSMM related information thath needs to be fleshed out,
or the context to the project explained and shared.

I will make an effort to review the version 3 HSMM-MESH firmware documenttion. If
we get that and the binaries posted that will be a big help.

I am alreasy supporting multiple users in multiple states and it is hard to find the time
to do so, but it seems wrong to stir up interest then not follow through with enough
help to get them on the air.

Lets get the basics checked out and ge the public web site on line as soon as possible.
We can always add to to it but we already have over 50 people on the Austin development
yahoo site and it is not the best place to be directing everyone. We need the pubilc
site up as soon as resources allow.

Thanks for your efforts.

-Glenn

--- On Sun, 9/27/09, whwallacemo1 <bill@findmarian-bill.info> wrote:

From: whwallacemo1 <bill@...>
Subject: [ntms-hsmm] Re:-- longtermbond <n2ltq@...> wants to join ntms-hsmm
To: ntms-hsmm@yahoogroups.com
Date: Sunday, September 27, 2009, 4:05 PM

I guess this is why we are trying to get a public web site up and running for these types
of inquiries. We can direct them to the new site and we can use this site as a
developmental coordination site. When we get the new site up, we will all have to remember
to direct inquiries to the new site and we will not have to bother anyone to allow access.

I have added more to the web site last night. I am beginning to add the information someone
asked for concerning adding the software and instructions for using it over to the public
site. Some additional information has also been added. TAKE A LOOK AT IT. WWW.IM4EXYZ. ORG

Soon I am going to be porting the actual software over. The shell is already there to hold
it. I already have the instructions over and that is the reason for the next paragraph.

I am becomming concerned that some of the information on the wiki is 2 or 3 years old and conflicts with newer instructions. I would appreciate it, if you put something on the wiki before, please take a a minute to look at the wiki and update any information you provided to the most current conditions, configuration information, suggestions, etc. Version 3 does not have "Documentation" yet. Please, if you update any information on the wiki, let me know about it, and I will move it over to the new public web site.

I have also started a project to identify appropriate software for VoIP, Video streaming, e-mail, and file transfers. I am collecting and analysing data from searching the internet stage. If anyone has any comments start a new topic and help me.

Thank you

Bill W KC0TGY

[Non-text portions of this message have been removed]

1580. RE: [ntms-hsmm] Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 01:07:13 UTC
From: Dave
Topic: 1575 Message: 1580

I can't wait till be have a fully described arch from which we can run a single disk, minimal user interaction except to select the OS, and then it's up. As in the military things go bad in the heat of battle and it will also be the case with HSMM-Mesh. A complete disk with everything on it, and documentation on setting up a -small- will be needed for ham guys; not needed for computer folks. This is simple stuff, even Mesh. I'm going to try it soon, at a big festival here in Pueblo, CO where we could set up, say, five points and cameras plus SSTV radio and see what happens. Neat stuff -keep going.

Dave Mynatt
Program Director
Combined Science Center
/==========/
http://sciencecenter.no-ip.org
SID ID #S-0258
APRS Tier II Server @ http://pueblo.aprs2.net:14501
10 meter CW Beacon @ 28.234.5Mhz
RMS Server: 144.950Mhz KA0SWT-10
LAT: 38.26349"N LON: -104.613297"W Alt: 1460m
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++++/

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of WILLIAM WALLACE
Sent: Sunday, September 27, 2009 19:04
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Re:-- longtermbond <n2ltq@...> wants to join ntms-hsmm

Thanks Dave. I will look at them tonight.
Someone needs to get out front over the developers and have some software set up to run on HSMM-MESH (trade marked) when they are finished. When they get finished with the hardware, I want to have something that will work to drop on top of it that works for the "Served Agency". At least, the effort will give them something to look at and take exception to.. then make it better.

Bill Wallace KC0TGY

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.113/2398 - Release Date: 09/27/09 05:51:00

[Non-text portions of this message have been removed]

1581. RE: [ntms-hsmm] Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 01:19:39 UTC
From: Dave
Topic: 1575 Message: 1581

I'm thinking about a system from FAB-CORP: The EZ-Bridge-Lite□ comes complete with all the electronics that are needed for a point to point wireless network bridge installation; including 2 powerful 14dBi antennas with built-in 802.11bg high power electronics, Bracket Kits which accommodate pole or wall mounting, Cat5e rated POE (Power Over Ethernet) power inserters and 18VDC auto-ranging power supplies. Customer needs to supply CAT5 cabling between the power inserter and the antenna.

Sounds like the full setup... Any one have experience with an EZ-Lite system and HSMM-Mesh?

Dave
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++++/

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Glenn Currie
Sent: Sunday, September 27, 2009 19:12
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Re:-- longtermbond <n2ltq@stnhbr.com> wants to join ntms-hsmm

Yes,

We need to get the public web site up soon. It would be most helpful.
The request for review of existing information on the wiki is understandable.

The basic information on the version 3 HSMM-MESH code is pretty current.
There is a quit a bit of older stuff on the wiki, but the instructions on loading the version 3 firmware is in pretty good shape, I think.

Dealing with all the informaiton we have collected over the last 8 years is quite a task.
I currently have a 64GB USB memory stick on a lanyard around my neck that is almost full and it is all HSMM related information thath needs to be fleshed out, or the context to the project explained and shared.

I will make an effort to review the version 3 HSMM-MESH firmware documenttion. If we get that and the binaries posted that will be a big help.

I am alreasy supporting multiple users in multiple states and it is hard to find the time to do so, but it seems wrong to stir up interest then not follow through with enough help to get them on the air.

Lets get the basics checked out and ge the public web site on line as soon as possible.
We can always add to to it but we already have over 50 people on the Austin development yahoo site and it is not the best place to be directing everyone. We need the pubilc site up as soon as resources allow.

Thanks for your efforts.

-Glenn

--- On Sun, 9/27/09, whwallacemo1 <bill@...> wrote:

From: whwallacemo1 <bill@findmarian-bill.info>
Subject: [ntms-hsmm] Re:-- longtermbond <n2ltq@stnhbr.com> wants to join ntms-hsmm
To: ntms-hsmm@yahoogroups.com
Date: Sunday, September 27, 2009, 4:05 PM

I guess this is why we are trying to get a public web site up and running for these types of inquiries. We can direct them to the new site and we can use this site as a developmental coordination site. When we get the new site up, we will all have to remember to direct inquiries to the new site and we will not have to bother anyone to allow access.

I have added more to the web site last night. I am beginning to add the information someone asked for concerning adding the software and instructions for using it over to the public site. Some additional information has also been added. TAKE A LOOK AT IT. WWW.IM4EXYZ. ORG

Soon I am going to be porting the actual software over. The shell is already there to hold it. I already have the instructions over and that is the reason for the next paragraph.

I am becomming concerned that some of the information on the wiki is 2 or 3 years old and conflicts with newer instructions. I would appreciate it, if you put something on the wiki before, please take a a minute to look at the wiki and update any information you provided to the most current conditions, configuration information, suggestions, etc. Version 3 does not have "Documentation" yet. Please, if you update any information on the wiki, let me know about it, and I will move it over to the new public web site.

I have also started a project to identify appropriate software for VoIP, Video streaming, e-mail, and file transfers. I am collecting and analysing data from searching the internet stage. If anyone has any comments start a new topic and help me.

Thank you

Bill W KC0TGY

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.113/2398 - Release Date: 09/27/09 05:51:00

[Non-text portions of this message have been removed]

1582. Re: [ntms-hsmm] Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 02:06:47 UTC
From: Robert Ellis
Topic: 1575 Message: 1582

Dave,

On Sep 27, 2009, at 8:19 PM, Dave wrote:

> I'm thinking about a system from FAB-CORP: The EZ-Bridge-Lite™ comes
> complete with all the electronics that are needed for a point to point
> wireless network bridge installation; including 2 powerful 14dBi
> antennas
> with built-in 802.11bg high power electronics, Bracket Kits which
> accommodate pole or wall mounting, Cat5e rated POE (Power Over
> Ethernet)
> power inserters and 18VDC auto-ranging power supplies. Customer
> needs to
> supply CAT5 cabling between the power inserter and the antenna.
>
> Sounds like the full setup... Any one have experience with an EZ-
> Lite system
> and HSMM-Mesh?

HSMM-Mesh is currently only supported on particular versions of the
wrt54g*
routers. So, you'd be blazing a new trail with the ez-bridge.

HSMM-Mesh has value-added-software added to openWRT. So, if openWRT can
run on ez-bridge, then you *might* be able to port HSMM-Mesh to ez-
bridge.
However, I don't see ez-bridge listed in the supported section of the
openWRT
website; it also isn't listed in the unsupported hardware for openWRT
either.

I think it'd be safer (though perhaps not simpler) to get a wrt54g*
router,
and a rootenna... make a few mods to the router (power over ethernet)
and
then you're good to go. Fab-corp even sells a 15dBi antenna. ;)

Then once you're familiar with the software, you can try branching out
with
other hardware. Porting software to new hardware can be a headache,
however.

robert

>
>
> Dave

> DM78qg // KA0SWT
> /++++++++++++++++++++++++++++++++/
>
>
>
>
>
> -----Original Message-----
> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com]
> On Behalf
> Of Glenn Currie
> Sent: Sunday, September 27, 2009 19:12
> To: ntms-hsmm@yahoogroups.com
> Subject: Re: [ntms-hsmm] Re:-- longtermbond <n2ltq@...> wants
> to join
> ntms-hsmm
>
> Yes,
>
> We need to get the public web site up soon. It would be most helpful.
> The request for review of existing information on the wiki is
> understandable.
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> The basic information on the version 3 HSMM-MESH code is pretty
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> I am alreasy supporting multiple users in multiple states and it is
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> follow through with enough help to get them on the air.
>
> Lets get the basics checked out and ge the public web site on line
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> as possible.
> We can always add to to it but we already have over 50 people on the
> Austin
> development yahoo site and it is not the best place to be directing
> everyone. We need the pubilc site up as soon as resources allow.
>
> Thanks for your efforts.
>
> -Glenn
>
> --- On Sun, 9/27/09, whwallacemo1 <bill@...> wrote:
>
> From: whwallacemo1 <bill@findmarian-bill.info>
> Subject: [ntms-hsmm] Re:-- longtermbond <n2ltq@...> wants to
> join
> ntms-hsmm
> To: ntms-hsmm@yahoogroups.com
> Date: Sunday, September 27, 2009, 4:05 PM
>
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> When we
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> inquiries to the
> new site and we will not have to bother anyone to allow access.
>
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> wiki, let
> me know about it, and I will move it over to the new public web site.
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> Bill W KC0TGY
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> Yahoo! Groups Links
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> No virus found in this outgoing message.
> Checked by AVG - www.avg.com
> Version: 8.5.409 / Virus Database: 270.13.113/2398 - Release Date:
> 09/27/09 05:51:00
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> Yahoo! Groups Links
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1583. RE: [ntms-hsmm] Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 02:13:21 UTC
From: WILLIAM WALLACE
Topic: 1575 Message: 1583

David, Can you keep a log book of everything you do at the event and then send a copy to me or put your experience on the Yahoo or wiki site?....
This is a great test and to see the following would be invaluable to me setting up the web site.

Hardware used

Configuration of hardware, firmware, and auxiliary(application, server, video link, everything above HSMM-MESH) software generally

1. what went wrong? How did you fix it?
2. what went wrong? How did you fix it?
3. what else went wrong? How did you fix it this time?
Who used it and what did they use it for?
What was the response you received?

Also get pictures of everything.... All these answers and pictures will be very helpful for the Hams learning this technology...
OK if you get everything I want, you will not have time to set up the network and get it running, but it does not hurt to ask does it?

Bill Wallace KC0TGY

[Non-text portions of this message have been removed]

1584. RE: [ntms-hsmm] Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 02:16:35 UTC
From: Dave
Topic: 1575 Message: 1584

Let's find out; Know any one at Mesh we can inquire of?

Dave
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++++/

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Robert Ellis
Sent: Sunday, September 27, 2009 20:07
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Re:-- longtermbond <n2ltq@...> wants to join ntms-hsmm

Dave,

On Sep 27, 2009, at 8:19 PM, Dave wrote:

> I'm thinking about a system from FAB-CORP: The EZ-Bridge-LiteT comes
> complete with all the electronics that are needed for a point to point
> wireless network bridge installation; including 2 powerful 14dBi
> antennas with built-in 802.11bg high power electronics, Bracket Kits
> which accommodate pole or wall mounting, Cat5e rated POE (Power Over
> Ethernet)
> power inserters and 18VDC auto-ranging power supplies. Customer needs
> to supply CAT5 cabling between the power inserter and the antenna.
>
> Sounds like the full setup... Any one have experience with an EZ- Lite
> system and HSMM-Mesh?

HSMM-Mesh is currently only supported on particular versions of the wrt54g*
routers. So, you'd be blazing a new trail with the ez-bridge.

HSMM-Mesh has value-added-software added to openWRT. So, if openWRT can run on ez-bridge, then you *might* be able to port HSMM-Mesh to ez- bridge. However, I don't see ez-bridge listed in the supported section of the openWRT website; it also isn't listed in the unsupported hardware for openWRT either.

I think it'd be safer (though perhaps not simpler) to get a wrt54g* router, and a rootenna... make a few mods to the router (power over ethernet) and then you're good to go. Fab-corp even sells a 15dBi antenna. ;)

Then once you're familiar with the software, you can try branching out with other hardware. Porting software to new hardware can be a headache, however.

robert

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> Dave
> DM78qg // KA0SWT
> /++++++++++++++++++++++++++++++++/
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> -----Original Message-----
> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com]
> On Behalf
> Of Glenn Currie
> Sent: Sunday, September 27, 2009 19:12
> To: ntms-hsmm@yahoogroups.com
> Subject: Re: [ntms-hsmm] Re:-- longtermbond <n2ltq@...> wants
> to join ntms-hsmm
>
> Yes,
>
> We need to get the public web site up soon. It would be most helpful.
> The request for review of existing information on the wiki is
> understandable.
>
> The basic information on the version 3 HSMM-MESH code is pretty
> current.
> There is a quit a bit of older stuff on the wiki, but the instructions
> on loading the version 3 firmware is in pretty good shape, I think.
>
> Dealing with all the informaiton we have collected over the last 8
> years is quite a task.
> I currently have a 64GB USB memory stick on a lanyard around my neck
> that is almost full and it is all HSMM related information thath
> needs to be fleshed out, or the context to the project explained and
> shared.
>
> I will make an effort to review the version 3 HSMM-MESH firmware
> documenttion. If we get that and the binaries posted that will be a
> big help.
>
> I am alreasy supporting multiple users in multiple states and it is
> hard to find the time to do so, but it seems wrong to stir up interest
> then not follow through with enough help to get them on the air.
>
> Lets get the basics checked out and ge the public web site on line as
> soon as possible.
> We can always add to to it but we already have over 50 people on the
> Austin development yahoo site and it is not the best place to be

> directing everyone. We need the pubilc site up as soon as resources
> allow.
>
> Thanks for your efforts.
>
> -Glenn
>
> --- On Sun, 9/27/09, whwallacemo1 <bill@...> wrote:
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> From: whwallacemo1 <bill@...>
> Subject: [ntms-hsmm] Re:-- longtermbond <n2ltq@...> wants to
> join ntms-hsmm
> To: ntms-hsmm@yahoogroups.com
> Date: Sunday, September 27, 2009, 4:05 PM
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[Non-text portions of this message have been removed]

1585. RE: [ntms-hsmm] Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 02:33:27 UTC
From: WILLIAM WALLACE
Topic: 1575 Message: 1585

Wonder what processor it uses and will the team's software work on it....?

I will try to find out

Bill Wallace

[Non-text portions of this message have been removed]

1586. RE: [ntms-hsmm] Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 02:55:58 UTC
From: Dave
Topic: 1575 Message: 1586

Here's the datasheet on the EZ-Bridge:
http://support.e-zy.net/EZBridgeLite/EZ-Bridge-Lite_DataSheet.pdf

Dave
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++++/

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of Dave
Sent: Sunday, September 27, 2009 20:17
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Re:-- longtermbond <n2ltq@...> wants to join
ntms-hsmm

Let's find out; Know any one at Mesh we can inquire of?

Dave
DM78qg // KA0SWT
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Sent: Sunday, September 27, 2009 20:07
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Re:-- longtermbond <n2ltq@...> wants to join
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Dave,

On Sep 27, 2009, at 8:19 PM, Dave wrote:

> I'm thinking about a system from FAB-CORP: The EZ-Bridge-LiteT comes
> complete with all the electronics that are needed for a point to point
> wireless network bridge installation; including 2 powerful 14dBi
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> which accommodate pole or wall mounting, Cat5e rated POE (Power Over
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> power inserters and 18VDC auto-ranging power supplies. Customer needs
> to supply CAT5 cabling between the power inserter and the antenna.
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> Sounds like the full setup... Any one have experience with an EZ- Lite
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HSMM-Mesh is currently only supported on particular versions of the
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routers. So, you'd be blazing a new trail with the ez-bridge.

HSMM-Mesh has value-added-software added to openWRT. So, if openWRT can run on ez-bridge, then you *might* be able to port HSMM-Mesh to ez- bridge. However, I don't see ez-bridge listed in the supported section of the openWRT website; it also isn't listed in the unsupported hardware for openWRT either.

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Then once you're familiar with the software, you can try branching out with other hardware. Porting software to new hardware can be a headache, however.

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> From: whwallacemo1 <bill@...>
> Subject: [ntms-hsmm] Re:-- longtermbond <n2ltq@...> wants to
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> To: ntms-hsmm@yahoogroups.com
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> Bill W KC0TGY
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Yahoo! Groups Links

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Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.113/2398 - Release Date: 09/27/09 05:51:00

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.113/2399 - Release Date: 09/27/09 17:52:00

[Non-text portions of this message have been removed]

1587. RE: [ntms-hsmm] Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 03:11:26 UTC
From: Glenn Currie
Topic: 1575 Message: 1587

It is always risky to comment on a system one has not worked on, but a "bridge" system typically means a particular type of point to point link. It takes the place of a long CAT-5 computer cable - period.

Now is a useful thing and is used in many places, but differs significantly in the architecture and intent of a mesh. A bridge usually links two points and two points only.

A mesh has software, in the case of HSMM-MESH, to dynamically add links for more connections. Additionally, if you have multiple mesh nodes in a mesh and a user of one node is passing a file to another node, through an intermediate node, and the intermediate node fails, the data is automatically switched to another path through other mesh nodes.

The military likes mesh nodes because if you put a bunch of nodes in an area and some fail data continues to flow as the mesh dynamically reroutes the data.

In a simple bridge , if the link breaks, there is no provision to switch to another path.

This is accomplished by the Optimum Link State Routing OLSR code that has been added to the HSMM-MESH code.

Now if you just have 2 mesh nodes and one breaks, then the link is broken. In the military, they literally fly over and drop thousands to mesh nodes in an area and if many of them are disabled, they simply fly over an pepper the place again.

So I am assuming (dangerous) that the bridge system mentioned is a simple pair of radios that pass data. If you had a third, similar radio, for example, most bridge designs have no provision to make use of the third radio. Their link design is just a very simply one.

So there are a lot of assumptions I made, but the key difference in a mesh is that it is expected that there will be multiple nodes and hundreds of them can be in one area and all will auto link. With a basic bridge, you simply replace a long wire with two radios and there is no straightforward way to add more radios.

There are, of course, many hybrid designs, that mix and match characteristics of different types of links. We would need to carefully examine the manual for the radios, but I would expect no straightforward way to make bridge devices mesh. A mesh is a much more complex design.

There are plenty of uses for bridge links. There are thousands of them in use as I send this, but a bridge is generally a distinctly different software architecture than a mesh.

Hope this unresearched speculation is of some value.

I know what HSMM-MESH does, I do not know what this particular bridge hardware/ software combo does. I suspect if they could mesh, they would advertize it.

-Glenn

--- On Sun, 9/27/09, WILLIAM WALLACE <bill@...> wrote:

From: WILLIAM WALLACE <bill@...>
Subject: RE: [ntms-hsmm] Re:-- longtermbond <n2ltq@...> wants to join ntms-hsmm
To: ntms-hsmm@yahoogroups.com
Date: Sunday, September 27, 2009, 9:33 PM

Wonder what processor it uses and will the team's software work on it....?

I will try to find out

Bill Wallace

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1588. Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 03:14:09 UTC
From: whwallacemo1
Topic: 1575 Message: 1588

--- In ntms-hsmm@yahoogroups.com, Glenn Currie <kd5mfw_7@...> wrote:

>

> Yes,

>

> We need to get the public web site up soon. It would be most helpful.

> The request for review of existing information on the wiki is
understandable.

>

> The basic information on the version 3 HSMM-MESH code is pretty
current. There

> is a quit a bit of older stuff on the wiki, but the instructions on
loading the version 3

> firmware is in pretty good shape, I think.

>

There are 1 or 2 places that ARES-MESH is mentioned in some of the
documentation

I did not find a "Documentation" label like is under Version 1 and 2

Maybe they are somewhere else and I just did not recognize them for what
they were.

> Dealing with all the information we have collected over the last 8
years is quite a task.

> I currently have a 64GB USB memory stick on a lanyard around my neck
that is

> almost full and it is all HSMM related information that needs to be
fleshed out,

> or the context to the project explained and shared.

I need this, Why the project? I know you used Wifi in controlling some
of your Robots,

But there has to be more. Maybe someone else from the old ARRL Working
Group set it

off, but I would like to know how this project got started. Plus who are the developers?

When questions come up from the Web page, I don't want you to have to piece out the

questions for somebody to answer, I would do that and get the answer to send back to

whomever asked the question and begin to build a Frequently Asked Question page or

Develop a Knowledge Base type of resource for our users.

>

> I will make an effort to review the version 3 HSMM-MESH firmware documentation. If

> we get that and the binaries posted that will be a big help.

They will be posted soon. I have to copy each one of them to the web page so they can be

downloaded like they are now on the Wiki. It was too big a project to start at 2:00 am.

>

> I am already supporting multiple users in multiple states and it is hard to find the time

> to do so, but it seems wrong to stir up interest then not follow through with enough

> help to get them on the air.

I want to know who they are? What are they doing with the software/firmware. Give me a contact for each of them and I will do the inquiry and document what I find out so people who use the public site can see that this technology really can be used in the real world.

>

> Lets get the basics checked out and get the public web site on line as soon as possible.

> We can always add to it but we already have over 50 people on the Austin development

> yahoo site and it is not the best place to be directing everyone. We need the public

> site up as soon as resources allow.

>

Thanks for your efforts. Thank you Glenn for putting up with pushy me. I know you are

overworked, but not over appreciated. I will get the site up, but as I said, I need help and

I appreciate your support. Thank you for your work on this project and that also goes to all

the developers. You ALL have done a real service toward revitalizing the Ham Radio experience

and hopefully drawing in more members to this wonderful hobby.

Bill Wallace

[Non-text portions of this message have been removed]

1589. RE: [ntms-hsmm] Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 04:01:44 UTC
From: Dave
Topic: 1575 Message: 1589

Glenn et al,

EZ (http://www.fab-corp.com/manufacturers.php?manufacturerid=13) did mention they are Mesh-capable, saying "Multiple EZ-Bridge-Lite□ units can be connected in a mesh configuration to allow interconnecting more than two sites." http://support.e-zy.net/EZBridgeLite/EZ-Bridge-Lite_DataSheet.pdf

I asked for clarification and will see what their engineers say about mesh-ing, but, you are correct about bridging being considered point to point. However, OSLA fail-over is a function of link-status monitoring applications based at each node that senses the connection status and reroutes by prearranged routing tables should one link break they all share that IPTABLE. The two I'm familiar with are, simply, data/packet backup sensing or signal loss failure. Take your pick, they both operate in about the same time frame. Node PC's monitor link delay status and reroute accordingly.

Mesh networking means, of course, that each site has to have two or more antenna/radio systems or some form of multiple auto Az/El on multiple antennas. Not sure how it would work as distance is dependent upon antenna power, design and altitude. Omni-directional antennas decrease effective area, so Yagi's or high-gain antennas are needed over 4 miles or so. Three antennas with auto switch-over is preferable in a dangerous environment but two fixed antennas in addition to the primary route would be sufficient, maybe. We need to know what antenna?

In our environment, as I see it, we would attach our antennas to a tall building, co-locate our Node equipment within CAT distance and route data, video, and text for an 'area operations' as required. We're providing limited PTP backbone service as I see it. Mesh is nice, we should plan our system on using it, but we also have to recognize that each mesh node requires another operator and system. Additionally, we are insinuating that we will probably co-locate with a ham station. I run a station not all that untypical that has beaconing, SSTV, Ecomm, RMS, and Paclink, weather and repeater; a lot for sure but we can expect a similarly featured ham station close to us to route long-distance communications.

And that brings up another question I am struggling with. Is HSMM and Ecomm in general, an inside-the-disaster zone communications system; an outside-to-inside zone system, or an inside to outside (traffic control) zone system? Or all the above? Who will regulate our data stream and client/consumer use if we are accessible to outside internet users? What is our interface with Ecomm? Are we the short-distance link between, say, the firefighters on the line (?) and the Fire or Police Station and ham radio HF the long-distance link?

If we're having trouble getting point-to-point we'll maybe have a more difficult time getting mesh operators.

I think a pursuit of PTP and planning for mesh as an option but not primary system is our best approach. Maybe. When, or if, the balloon goes up a mesh will be required someplace, so.. As long as it ain't super-EMF.

What's the Mission Statement and Purpose Statement and then we can built whatever we want.

Dave
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++++/

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Glenn Currie
Sent: Sunday, September 27, 2009 21:11
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Re:-- longtermbond <n2ltq@...> wants to join ntms-hsmm

It is always risky to comment on a system one has not worked on, but a "bridge"
system typically means a particular type of point to point link. It takes the place of a long CAT-5 computer cable - period.

Now is a useful thing and is used in many places, but differs significantly in the architecture and intent of a mesh. A bridge usually links two points and two points only.

A mesh has software, in the case of HSMM-MESH, to dynamically add links for more connections. Additionally, if you have multiple mesh nodes in a mesh and a user of one node is passing a file to another node, through an intermediate node, and the intermediate node fails, the data is automatically switched to another path through other mesh nodes.

The military likes mesh nodes because if you put a bunch of nodes in an area and some fail data continues to flow as the mesh dynamically reroutes the data.

In a simple bridge , if the link breaks, there is no provision to switch to another path.

This is accomplished by the Optimum Link State Routing OLSR code that has been added to the HSMM-MESH code.

Now if you just have 2 mesh nodes and one breaks, then the link is broken. In the military, they literally fly over and drop thousands to mesh nodes in an area and if many of them are disabled, they simply fly over an pepper the place again.

So I am assuming (dangerous) that the bridge system mentioned is a simple pair of radios that pass data. If you had a third, similar radio, for

example, most bridge designs have no provision to make use of the third radio. Their link design is just a very simply one.

So there are a lot of assumptions I made, but the key difference in a mesh is that it is expected that there will be multiple nodes and hundreds of them can be in one area and all will auto link. With a basic bridge, you simply replace a long wire with two radios and there is no straightforward way to add more radios.

There are, of course, many hybrid designs, that mix and match characteristics of different types of links. We would need to carefully examine the manual for the radios, but I would expect no straightforward way to make bridge devices mesh. A mesh is a much more complex design.

There are plenty of uses for bridge links. There are thousands of them in use as I send this, but a bridge is generally a distinctly different software architecture than a mesh.

Hope this unresearched speculation is of some value.

I know what HSMM-MESH does, I do not know what this particular bridge hardware/ software combo does. I suspect if they could mesh, they would advertize it.

-Glenn

--- On Sun, 9/27/09, WILLIAM WALLACE <bill@...> wrote:

From: WILLIAM WALLACE <bill@findmarian-bill.info>
Subject: RE: [ntms-hsmm] Re:-- longtermbond <n2ltq@...> wants to join ntms-hsmm
To: ntms-hsmm@yahoogroups.com
Date: Sunday, September 27, 2009, 9:33 PM

Wonder what processor it uses and will the team's software work on it....?

I will try to find out

Bill Wallace

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.113/2399 - Release Date: 09/27/09 17:52:00

[Non-text portions of this message have been removed]

1590. Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 04:14:57 UTC
From: whwallacemo1
Topic: 1575 Message: 1590

They are running OLSRD as their MESH software

Developer is Greece firm, mfg in Utah. I would bet that someone who knows could look at their documentation and change log and see if it is WDT or some flavor based If it is, it has to be under the GPL. They did not disclose processor anywhere I could see.

Have a nice feature that they have a LED on the modem that lights when a signal is received. Helps with aiming the dish. You don't need a computer at antenna site to see signal strength. Maybe the Linksys has the same thing. Still waiting for my 2 WRT54GLs to arrive. What software/firmware version should I use?

Bill Wallace

1591. Re: [ntms-hsmm] Meshing | E-Zy * EZ-Bridge-LT2

Yahoo group: DAWG-HSMM
Date: 2009-09-28 04:50:15 UTC
From: ALERTradio ERC | N0PCO
Topic: 1575 Message: 1591

The E-Zy package has meshing capabilities and it is using the OLSR code:

Mesh Networking is a construction of many access point implementing ad hoc type linking to form a path to destination. The path is re-formed automatically when there is prohibited route or malfunctioning device in the path, resulting a reliable wireless network service to destinations.

OLSRD - The EZ-OS deploys the efficient OLSR (Optimized Link State Routing Protocol) for mesh networking implementation. It is a pro-active, table driven and utilizes multipoint relaying for message flooding.

http://dokuwiki.e-zy.net/doku.php?id=products:ez-os:manual#mesh_networking

As for the system hardware:

Processor - Realtexk 8186
Speed - 200MHz MIPS
Flash - 2MB
SDRAM - 16MB
Radio RTL8225
Power Amplifier - SE2527

http://www.e-zy.net/outdoor/EZ-Bridge-LT2/

Mars, N0PCO
ALERTradio ERC
www.alertradio.net | www.asteriskradio.net | www.darnsimple.net

Glenn Currie wrote:
>
>
> It is always risky to comment on a system one has not worked on, but a
> "bridge"
> system typically means a particular type of point to point link. It
> takes the place
> of a long CAT-5 computer cable - period.
>
> Now is a useful thing and is used in many places, but differs
> significantly in the
> architecture and intent of a mesh. A bridge usually links two points
> and two points
> only.
>
> A mesh has software, in the case of HSMM-MESH, to dynamically add
> links for
> more connections. Additionally, if you have multiple mesh nodes in a

> mesh and
> a user of one node is passing a file to another node, through an
> intermediate node,
> and the intermediate node fails, the data is automatically switched to
> another path
> through other mesh nodes.
>
> The military likes mesh nodes because if you put a bunch of nodes in
> an area and some
> fail data continues to flow as the mesh dynamically reroutes the data.
>
> In a simple bridge , if the link breaks, there is no provision to
> switch to another path.
>
> This is accomplished by the Optimum Link State Routing OLSR code that
> has been
> added to the HSMM-MESH code.
>
> Now if you just have 2 mesh nodes and one breaks, then the link is
> broken. In the
> military, they literally fly over and drop thousands to mesh nodes in
> an area and if
> many of them are disabled, they simply fly over an pepper the place again.
>
> So I am assuming (dangerous) that the bridge system mentioned is a
> simple pair
> of radios that pass data. If you had a third, similar radio, for
> example, most bridge
> designs have no provision to make use of the third radio. Their link
> design is just
> a very simply one.
>
> So there are a lot of assumptions I made, but the key difference in a
> mesh is that it is
> expected that there will be multiple nodes and hundreds of them can be
> in one area
> and all will auto link. With a basic bridge, you simply replace a
> long wire with two
> radios and there is no straightforward way to add more radios.
>
> There are, of course, many hybrid designs, that mix and match
> characteristics of
> different types of links. We would need to carefully examine the
> manual for the
> radios, but I would expect no straightforward way to make bridge
> devices mesh. A
> mesh is a much more complex design.
>
> There are plenty of uses for bridge links. There are thousands of
> them in use as

> I send this, but a bridge is generally a distinctly different software
> architecture than
> a mesh.
>
> Hope this unresearched speculation is of some value.
>
> I know what HSMM-MESH does, I do not know what this particular bridge
> hardware/
> software combo does. I suspect if they could mesh, they would
> advertize it.
>
> -Glenn
>
> --- On Sun, 9/27/09, WILLIAM WALLACE <bill@...
> <mailto:bill%40findmarian-bill.info>> wrote:
>
> From: WILLIAM WALLACE <bill@...
> <mailto:bill%40findmarian-bill.info>>
> Subject: RE: [ntms-hsmm] Re:-- longtermbond <n2ltq@...
> <mailto:n2ltq%40stnhbr.com>> wants to join ntms-hsmm
> To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> Date: Sunday, September 27, 2009, 9:33 PM
>
>
>
> Wonder what processor it uses and will the team's software work on it....?
>
> I will try to find out
>
> Bill Wallace
>
> [Non-text portions of this message have been removed]
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[Non-text portions of this message have been removed]

1592. Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 04:55:13 UTC
From: whwallacemo1
Topic: 1575 Message: 1592

DAVE: I AM GOING TO COMMENT ON SOME OF YOUR COMMENTS AND I WILL USE CAPITAL LETTERS, BUT PLEASE DO NOT THINK I AM YELLING AT YOU. I JUST WANT YOU TO FIND MY COMMENTS
--- In ntms-hsmm@yahoogroups.com, "Dave" <dave@...> wrote:
>
> Glenn et al,
>
> EZ (http://www.fab-corp.com/manufacturers.php?manufacturerid=13) did mention
> they are Mesh-capable, saying "Multiple EZ-Bridge-Lite□ units can be
> connected in a mesh configuration to allow interconnecting more than two
> sites." http://support.e-zy.net/EZBridgeLite/EZ-Bridge-Lite_DataSheet.pdf

DEEP IN THEIR LITERATURE IS A STATEMENT THAT THEY USE OLSRD
WHICH IS THE SAME AS WE USE.

> I asked for clarification and will see what their engineers say about
> mesh-ing, but, you are correct about bridging being considered point to
> point. However, OSLA fail-over is a function of link-status monitoring
> applications based at each node that senses the connection status and
> reroutes by prearranged routing tables should one link break they all share
> that IPTABLE. The two I'm familiar with are, simply, data/packet backup
> sensing or signal loss failure. Take your pick, they both operate in about
> the same time frame. Node PC's monitor link delay status and reroute
> accordingly.
>
> Mesh networking means, of course, that each site has to have two or more
> antenna/radio systems or some form of multiple auto Az/El on multiple
> antennas.

FROM WHAT I HAVE READ OF OUR TECHNOLOGY, I DO NOT THINK
THAT THIS IS THE CASE. ONE ANTENNA IS ALL THAT IS NEEDED.

Not sure how it would work as distance is dependent upon antenna
> power, design and altitude. Omni-directional antennas decrease effective
> area, so Yagi's or high-gain antennas are needed over 4 miles or so. Three
> antennas with auto switch-over is preferable in a dangerous environment but
> two fixed antennas in addition to the primary route would be sufficient,
> maybe. We need to know what antenna?

THEY ARE USING A FAIRLY
COMMON DESIGN OF A PANEL ANTENNA AT 9DBi.
>
> In our environment, as I see it, we would attach our antennas to a tall
> building, co-locate our Node equipment within CAT distance and route data,
> video, and text for an 'area operations' as required.
TRUE
We're providing

> limited PTP backbone service as I see it. Mesh is nice, we should plan our
> system on using it, but we also have to recognize that each mesh node
> requires another operator and system.
NOT SO, SYSTEM HAS REMOTE MANAGEMENT CAPABILITIES.
ONE NODE CAN MANAGE ALL THE NODES IN A NETWORK. NOW,
WE NEED A HAM OPERATOR AT EACH SERVED AGENCY LOCATION TO KEEP
THE AGENCY HAM "HONEST" AND TO PROVIDE SUPPORT FOR DELIVERING SERVICES SUCH AS SETTING UP
VIDEO CONFERENCES, LOGGING SYSTEM, ETC, BUT WE CAN USE
UNMANNED RELAY NODES.

Additionally, we are insinuating that we will probably co-locate with a ham station.

I AM NOT ASSUMING THAT IN MY NETWORK PLAN. NODES WILL BE WHERE
WE NEED THEM IF THEY ARE RELAY NODES, AND SERVED AGENCY LOCATIONS
WILL HAVE MANNED NODES WHERE THEY WANT THEM. IN ADDITION, I AM
ONLY PLANNING ON 4 COMPUTERS AT EACH NODE. ONE FOR THE CONTROL
HAM OPERATOR. ONE IN THE EOC. TWO MORE WHERE THEY WANT THEM
WITHIN EASY TEMPORATORY CAT 5 RUNS OR AT LEAST PREINSTALLED CAT 5
RUNS UNDER 300 FT FROM THE REMOTELY LOCATED ROUTER/ANTENNA
ON THE ROOF. I AM PLANNING TO BLANKET THE ST. LOUIS METROPOLITAN
AREA SOMEDAY WITH A OVERLAY OF HSMM-MESH SERVICE THAT WITH PLANNING
ANY AGENCY CAN PREARRANGE SERVICE FROM THE HAM COMMUNITY IN CASE
THEY MAY NEED IT.

. I run a station not all that > untypical that has beaconing, SSTV, Ecomm, RMS, and
Paclink, weather and
> repeater; a lot for sure but we can expect a similarly featured ham station
> close to us to route long-distance communications.
>
> And that brings up another question I am struggling with. Is HSMM and Ecomm
> in general, an inside-the-disaster zone communications system; an
> outside-to-inside zone system, or an inside to outside (traffic control)
> zone system? Or all the above?
ALL OF THE ABOVE SOME DAY, BUT WE WILL START WITH THE METRO AREA
AND BUILD OUT TO SERVICE ANYONE THAT NEEDS IT.

GLENN, I WILL NEED WINLINK OR PACKET TRANSLATION AS A PLUG IN OUT ONE
OF THE LAN PORTS. I WILL PUT IT WHERE OUR MISSOURI RELAY LINK CAN GET HOLD OF THE SIGNAL .. I
HOPE THAT IS WHAT THE SERVER CARD IS FOR. TURN IT INTO PACKET AND
GIVE ME OUTPUT FOR INPUT INTO A RADIO DATA PORT.

Who will regulate our data stream and > client/consumer use if we are accessible to outside
internet users?
THERE WILL BE NO INTERNET USERS OUTSIDE OF OUR MESH NETWORK. REMEMBER, IF THE
SERVED AGENCY HAS INTERNET, THEY DO NOT NEED THIS SYSTEM.
What is our interface with Ecomm?

AS YOU STATED, WE ARE THEIR BACKBONE AND THEIR INPUT TO THE MESH. I DO NOT
THINK WE CAN LET THEM HOOK ALL THEIR NETWORKED COMPUTERS INTO OUR SYSTEM
IT WOULD DIE FROM OVERLOAD. WITH ONLY 3 TERMINALS AVAILABLE AT EACH SERVED
LOCATION, THEY WILL NOT OVERLOAD THE SYSTEM. I HOPE

GLENN: IN MY HOSPITALS, I AM PLANNING MANAGEMENT/EOC IS ONE, PHARMACY IS TWO,
AND MEDICAL IS THREE, AND CONTROL OPERATOR IS FOUR. WHAT THINKS YOU?

Are we the short-distance link between, say, the
> firefighters on the line (?)
NO USE VOICE.
and the Fire or Police Station and ham radio HF
> the long-distance link? YES IF YOU ARE ASKING INTO THE PACKET NETWORK OR TO SECURE
LIMITED INTERNET, MAYBE, HAVE NOT THOUGHT THAT FAR.

OUR SYSTEM IN ST. LOUIS WILL BE A MANAGEMENT SYSTEM, CONNECTING THE POWERS TO BE. VOICE FOR
OPERATIONS/COMMAND AND CONTROL. WE DO NOT HAVE THE DIGITAL RESOURCES TO DO INDIVIDUAL OR
CAR TO CAR COMMUNICATIONS. WE WOULD DIE.

>
> If we're having trouble getting point-to-point we'll maybe have a more
> difficult time getting mesh operators.

NOT WITH MY ONLY AT SERVED AGENCY LOCATIONS, BUILD TWO SYSTEMS ($500.00) YOU GET
TO BE LOCATED WITH ONE OF THEM AT A SERVED AGENCY LOCATION AND THE OTHER ONE
GOES TO RELAY DUTY. TWO SO YOU CAN TEST THEM OUT AND THEN WE WILL CERTIFY THEM FOR
SERVICE.
>
> I think a pursuit of PTP and planning for mesh as an option but not primary
> system is our best approach. Maybe. When, or if, the balloon goes up a mesh
> will be required someplace, so.. As long as it ain't super-EMF. PACKET CAN NOT HANDLE
THE THROUGHPUT REQUIRED. IT IS A FACTOR OF TWO SLOWER AND ALL THE BS TRYING
TO GET ACCURATE DATA THROUGH THEIR SYSTEM IS NOT WORTH SPENDING $250 FOR
NODE. WINLINK AND PACKET ARE NOW FOR MARTINE USE ONLY I KNOW YOUR
NEXT QUESTION, WHERE ARE WE GOING TO GET ALL THE MONEY WE NEED? FEMA GRANT FOR THE CITY.
I HAVE A PLAN

>
> What's the Mission Statement and Purpose Statement and then we can built
> whatever we want. I ALSO HAVE ASKED FOR THOSE GLENN.
>
> I KNOW I MISSES SOME SPELLING AND GRAMMAR ERRORS, BUT I WANTED TO
GET THIS OUT BEFORE GLENN SPENT A LOT OF TIME ANSWERING YOUR THOUGHT. NOW
HE CAN IMPROVE BOTH OUR MINDS
>
BILL WALLACE

1593. Re: Meshing | E-Zy * EZ-Bridge-LT2

Yahoo group: DAWG-HSMM
Date: 2009-09-28 05:08:17 UTC
From: whwallacemo1
Topic: 1575 Message: 1593

wOW YOU ARE REALLY GOOD.. SOB I MISSED IT.. DARN...

NOW THE QUESTION IS WILL OUR SOFTWARE WORK WITH
THAT PROCESSOR, ETC. COULD BE A NICE PACKAGE FOR
A LONG DISTANCE RELAY STATION IF WE COULD UP THE
POWER A LITTLE.

1594. RE: [ntms-hsmm] Re: Meshing | E-Zy * EZ-Bridge-LT2

Yahoo group: DAWG-HSMM
Date: 2009-09-28 05:38:52 UTC
From: Dave
Topic: 1575 Message: 1594

On the same site, check out the Bullet; a 1w device.

Dave
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++++/

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of whwallacemo1
Sent: Sunday, September 27, 2009 23:08
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Meshing | E-Zy * EZ-Bridge-LT2

wOW YOU ARE REALLY GOOD.. SOB I MISSED IT.. DARN...

NOW THE QUESTION IS WILL OUR SOFTWARE WORK WITH THAT PROCESSOR, ETC. COULD
BE A NICE PACKAGE FOR A LONG DISTANCE RELAY STATION IF WE COULD UP THE POWER
A LITTLE.

Yahoo! Groups Links

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.113/2399 - Release Date: 09/27/09 17:52:00

[Non-text portions of this message have been removed]

1595. Re: Meshing | E-Zy * EZ-Bridge-LT2

Yahoo group: DAWG-HSMM
Date: 2009-09-28 05:53:38 UTC
From: whwallacemo1
Topic: 1575 Message: 1595

I have seen that. They are really backordered last time I checked and the early units had some problems my dealer tells me. I also do not think our software supports them. Nice device though. A lot of people will jump on that. Nice package. With the right software, would be a perfect node.

Bill Wallace

1596. Re: [ntms-hsmm] Meshing | E-Zy * EZ-Bridge-LT2

Yahoo group: DAWG-HSMM
Date: 2009-09-28 11:10:03 UTC
From: Robert Ellis
Topic: 1575 Message: 1596

On Sep 27, 2009, at 11:50 PM, ALERTradio ERC | N0PCO wrote:

> As for the system hardware:
>
> Processor - Realtexk 8186
> Speed - 200MHz MIPS
> Flash - 2MB
> SDRAM - 16MB
> Radio RTL8225
> Power Amplifier - SE2527

There are ports in progress of linux and/or openWRT to the RTL8186 based systems.

However, the real problem here is the size of the flash ... 2MB. The same sized flash in the wrt54g v5 was initially the reason that openWRT was not supported on that version of the router. (That limitation has been overcome for the micro version of dd-wrt: http://www.bitsum.com/openwiking/owbase/ow.asp?WRT54G5%5FCFE.)

I believe you mentioned a (Ubiquiti) 'bullet' in one of your posts. If you are keen on using a system that is integrated into an antenna, pick one that is already supported by openWRT, such as the Ubiquiti Nanostation (http://www.ubnt.com/products/nano.php , http://wiki.openwrt.org/oldwiki/openwrtdocs/hardware/ubiquiti/nanostation2) , some models of which have an external antenna connector. (Fans of olsr favour omnidirectional antennas rather than directional ones. In Austin, omni's have been used with wrt54g* routers to establish links of 7 miles.)

(But, just because the openWRT website says a board is supported, that doesn't mean that that is true. I have two 'supported' wifi devices, neither of which have I been able to install openWRT on.)

Again, HSMM-Mesh is only supported on certain versions of the wrt54g* routers. In particular, it is only supported on wrt54g* routers that have a flash size of at least 4MB. If you pick hardware other than wrt54g*, you are on your own.

robert

1597. RE: [ntms-hsmm] Re:-- longtermbond wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-28 03:14:09 UTC
From: Glenn Currie
Topic: 1575 Message: 1597

This is definitely not a mesh and I see no easy way to make it one.

WRT54G routers in Rootennas could do a similar job and be much more flexible.

-Glenn

--- On Sun, 9/27/09, Dave <dave@...> wrote:

From: Dave <dave@mynatt.biz>
Subject: RE: [ntms-hsmm] Re:-- longtermbond <n2ltq@...> wants to join ntms-hsmm
To: ntms-hsmm@yahoogroups.com
Date: Sunday, September 27, 2009, 9:55 PM

Here's the datasheet on the EZ-Bridge:

http://support. e-zy.net/ EZBridgeLite/ EZ-Bridge- Lite_DataSheet. pdf

Dave

DM78qg // KA0SWT

/+++++++++++ +++++++++ +++++++++ +++/

-----Original Message-----

From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com] On Behalf

Of Dave

Sent: Sunday, September 27, 2009 20:17

To: ntms-hsmm@yahoogrou ps.com

Subject: RE: [ntms-hsmm] Re:-- longtermbond <n2ltq@stnhbr. com> wants to join

ntms-hsmm

Let's find out; Know any one at Mesh we can inquire of?

Dave

DM78qg // KA0SWT

/+++++++++++ +++++++++ +++++++++ +++/

-----Original Message-----

From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com] On Behalf

Of Robert Ellis

Sent: Sunday, September 27, 2009 20:07

To: ntms-hsmm@yahoogrou ps.com

Subject: Re: [ntms-hsmm] Re:-- longtermbond <n2ltq@stnhbr. com> wants to join

ntms-hsmm

Dave,

On Sep 27, 2009, at 8:19 PM, Dave wrote:

> I'm thinking about a system from FAB-CORP: The EZ-Bridge-LiteT comes

> complete with all the electronics that are needed for a point to point

> wireless network bridge installation; including 2 powerful 14dBi

> antennas with built-in 802.11bg high power electronics, Bracket Kits

> which accommodate pole or wall mounting, Cat5e rated POE (Power Over

> Ethernet)

> power inserters and 18VDC auto-ranging power supplies. Customer needs

> to supply CAT5 cabling between the power inserter and the antenna.

>

> Sounds like the full setup... Any one have experience with an EZ- Lite

> system and HSMM-Mesh?

HSMM-Mesh is currently only supported on particular versions of the

wrt54g*

routers. So, you'd be blazing a new trail with the ez-bridge.

HSMM-Mesh has value-added- software added to openWRT. So, if openWRT can run

on ez-bridge, then you *might* be able to port HSMM-Mesh to ez- bridge.

However, I don't see ez-bridge listed in the supported section of the

openWRT website; it also isn't listed in the unsupported hardware for

openWRT either.

I think it'd be safer (though perhaps not simpler) to get a wrt54g* router,

and a rootenna... make a few mods to the router (power over ethernet) and

then you're good to go. Fab-corp even sells a 15dBi antenna. ;)

Then once you're familiar with the software, you can try branching out with

other hardware. Porting software to new hardware can be a headache, however.

robert

>

>

> Dave

> DM78qg // KA0SWT

> /++++++++++ +++++++++ +++++++++ +++/

>

>

>

>

>

> -----Original Message-----

> From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com]

> On Behalf

> Of Glenn Currie

> Sent: Sunday, September 27, 2009 19:12

> To: ntms-hsmm@yahoogrou ps.com

> Subject: Re: [ntms-hsmm] Re:-- longtermbond <n2ltq@stnhbr. com> wants

> to join ntms-hsmm

>

> Yes,

>

> We need to get the public web site up soon. It would be most helpful.

> The request for review of existing information on the wiki is

> understandable.

>

> The basic information on the version 3 HSMM-MESH code is pretty

> current.
> There is a quit a bit of older stuff on the wiki, but the instructions
> on loading the version 3 firmware is in pretty good shape, I think.
>
> Dealing with all the informaiton we have collected over the last 8
> years is quite a task.
> I currently have a 64GB USB memory stick on a lanyard around my neck
> that is almost full and it is all HSMM related information thath
> needs to be fleshed out, or the context to the project explained and
> shared.
>
> I will make an effort to review the version 3 HSMM-MESH firmware
> documenttion. If we get that and the binaries posted that will be a
> big help.
>
> I am alreasy supporting multiple users in multiple states and it is
> hard to find the time to do so, but it seems wrong to stir up interest
> then not follow through with enough help to get them on the air.
>
> Lets get the basics checked out and ge the public web site on line as
> soon as possible.
> We can always add to to it but we already have over 50 people on the
> Austin development yahoo site and it is not the best place to be
> directing everyone. We need the pubilc site up as soon as resources
> allow.
>
> Thanks for your efforts.
>
> -Glenn

>

> --- On Sun, 9/27/09, whwallacemo1 <bill@findmarian- bill.info> wrote:

>

> From: whwallacemo1 <bill@findmarian- bill.info>

> Subject: [ntms-hsmm] Re:-- longtermbond <n2ltq@stnhbr. com> wants to

> join ntms-hsmm

> To: ntms-hsmm@yahoogrou ps.com

> Date: Sunday, September 27, 2009, 4:05 PM

>

>

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>

> I guess this is why we are trying to get a public web

> site up and running for these types of inquiries. We can direct them

> to the new

> site and we can use this site as a developmental coordination site.

> When we

> get the new site up, we will all have to remember to direct inquiries

> to the new site and we will not have to bother anyone to allow access.

>

>

>

> I have added more to the web site last night. I am beginning to add

> the information someone asked for concerning adding the software and

> instructions for using it over to the public site. Some additional

> information has also been added. TAKE A LOOK AT IT. WWW.IM4EXYZ. ORG

>

> Soon I am going to be porting the actual software over. The shell is

> already there to hold it. I already have the instructions over and

> that is the reason for the next paragraph.

>

>

>

> I am becomming concerned that some of the information on the wiki is

> 2 or 3

> years old and conflicts with newer instructions. I would appreciate

> it, if you put something on the wiki before, please take a a minute to

> look at the wiki and update any information you provided to the most

> current conditions, configuration information, suggestions, etc.

> Version 3 does not have "Documentation" yet. Please, if you update any

> information on the wiki, let me know about it, and I will move it over

> to the new public web site.

>

>

>

> I have also started a project to identify appropriate software for

> VoIP, Video streaming, e-mail, and file transfers. I am collecting

> and analysing data from searching the internet stage. If anyone has

> any comments start a new topic and help me.

>

>

>

> Thank you

>

>

>

> Bill W KC0TGY

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> [Non-text portions of this message have been removed]

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> ------------ --------- --------- ------

>

> Yahoo! Groups Links

>

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> ----------

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>

> No virus found in this outgoing message.

> Checked by AVG - www.avg.com

> Version: 8.5.409 / Virus Database: 270.13.113/2398 - Release Date:

> 09/27/09 05:51:00

>

>

> [Non-text portions of this message have been removed]

>

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> ---------- --------- --------- ------

>

> Yahoo! Groups Links

>

>

>

---------- --------- --------- ------

Yahoo! Groups Links

No virus found in this outgoing message.

Checked by AVG - www.avg.com

Version: 8.5.409 / Virus Database: 270.13.113/2398 - Release Date: 09/27/09

05:51:00

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

No virus found in this outgoing message.

Checked by AVG - www.avg.com

Version: 8.5.409 / Virus Database: 270.13.113/2399 - Release Date: 09/27/09 17:52:00

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1598. RE: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications

Yahoo group: DAWG-HSMM
Date: 2009-09-22 11:40:39 UTC
From: Kipton Moravec
Topic: 1474 Message: 1598

Will it also include the Router Name? I am getting really tired of just
IP addresses.

Kip

On Mon, 2009-09-14 at 17:48 -0700, Glenn Currie wrote:
> We are working on something like this which is based on the
> "dot-draw" plug in for open-wrt.
>
> <http://d.yimg.com/kq/groups/17395913/homepage/name/955244?type=sn>
>
> It provides a dyamic map of currently visible mesh nodes.
>
> So many projects, so little time.
>
> -Glenn
>
>
>
> --- On Mon, 9/14/09, Dave <dave@...> wrote:
>
> From: Dave <dave@...>
> Subject: RE: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications
> To: ntms-hsmm@yahoogroups.com
> Date: Monday, September 14, 2009, 2:06 PM
>
>
>
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>
>
> I run UI-View with InfoKiosk and was thinking it be of great value to HSMM
>
> effort if we could do an add-on app that showed HSMM/mesh network as part of
>
> the map? That way we could overlay an existing APRS status display with HSMM
>
> info without having to use an APRS transmitted at each antenna location. An

>
> image editor allowing an object to be created without having a
>
> transmitter. ..
>
>
>
> It would be a very minor issue to add an HSMM icon to UI-View icon text
>
> file, and maybe just as simple to be able to add a fixed point to a map
>
> (because HSMM may *eventually* have an APRS identifier with it, but won't
>
> unless we add another level of tech to it). It could be that a full-time
>
> internet link would be able to upload the position.
>
>
>
> Maybe someone who programs can understand how to change the UI-View icon
>
> data to show an HSMM station that can be fixed to a map? Seems simple
>
> enough.... new icon/text files are being created as they are needed. We need
>
> an icon in APRS.
>
>
>
> Dave
>
> /++++++++++ +++++++++ +++++++++ +++/
>
>
>
>
>
>
>
>
>
>
>
>
>
> _____
>
>
>
> From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com] On Behalf

>
> Of Glenn Currie
>
> Sent: Sunday, September 13, 2009 11:46 PM
>
> To: ntms-hsmm@yahoogrou ps.com
>
> Subject: RE: [ntms-hsmm] ISO 6523 Naming for Networks, Services and
>
> Applications
>
>
>
> Yes,
>
>
>
> For a variety of reasons, having ways to be more cleaver about how to
>
> traverse
>
> an enormous address's space will pay dividends in better response.
>
>
>
> We are looking at ways to make the best use of APRS messaging, and possibly
>
> add messages for mesh status.
>
>
>
> There was an article in QEX a while back by Mitchell where he showed how he
>
> had integrated a wide variety of digital ham modes.
>
>
>
> As for D-STAR, EchoLInk etc. we need to do our best to blend them together.
>
> Recently Bob, B. the inventor of APRS proposed a universal text message
>
> scheme
>
> for ham radio. I am still pondering the implications.
>
>
>
> I am interested in fast smart routing so when we can use our fixed and
>
> mobile mesh

>
> nodes in a store and forward way to pass data, we have an efficient system.
>
> Some
>
> sort of tagging could bypass a brute dumb, brute force method of linking..
>
>
>
> Lots to think about, thanks for pointing out the previous efforts in this
>
> area.
>
>
>
> We hams (at least some of us) really get on all the different government
>
> agencies to
>
> work out better interoperability. We have plenty of our own
>
> interoperability within
>
> ham modes to keep us busy for quite a while.
>
>
>
> If the data / message every goes through a server, we should have some way
>
> to
>
> cross link it to whatever other modes make sense. Sending live video as
>
> short APRS
>
> messages just does not sound like a good idea just due to bandwidth
>
> considerations,
>
> but many of the major digital modes remain "islands" in a digital sea and we
>
> should
>
> do what we can to cross link them, and some sort of tagging system at a
>
> higher
>
> level than IP could be used to sort it out.
>
>

>
> Lots to think about.
>
>
>
> -Glenn
>
>
>
> --- On Sun, 9/13/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...
>
> <mailto:w2ttt% 40att.net> > wrote:
>
>
>
> From: J. Gordon Beattie, Jr., W2TTT <w2ttt@... <mailto:w2ttt% 40att.net>
>
> >
>
> Subject: RE: [ntms-hsmm] ISO 6523 Naming for Networks, Services and
>
> Applications
>
> To: ntms-hsmm@yahoogrou <mailto:ntms- hsmm%40yahoogrou ps.com> ps.com
>
> Date: Sunday, September 13, 2009, 10:43 PM
>
>
>
> Glenn,
>
>
>
> IPv6 is the right answer, but I was thinking, as you hinted, that we may
>
>
>
> want to consider it for what rides above it, so that we don't need to
>
>
>
> resolve IPv6 addresses associated with specific applications and services
>
>
>
> manually.
>
>
>
> We might consider integrating the interoperability controls into the naming

>
>
>
> at gateways for instance, and knowing the application name and domain in
>
>
>
> which it rests may be useful. For example, even when there is no radio
>
>
>
> involved, Echolink wants validated users or service points, so if we
>
>
>
> parceled out a service name that implied Echolink, then it would be able to
>
>
>
> autonomously determine who gets naming space in their world while also
>
>
>
> enabling those who are so "blessed" to seamlessly integrate their systems.
>
>
>
> So (heresy to follow) if we wanted to allow Echolink to IRLP to DSTAR
>
>
>
> integrated networks or integrate any of those with other networks or
>
>
>
> application services, we would have a way to indicate to our edge gateways
>
>
>
> (application or service and not necessarily network gateways) how to carry
>
>
>
> the transaction or other communication.
>
>
>
> Read on and we can discuss it some more when we all have had some time to
>
>

>
> brainstorm a bit.
>
>
>
> Thanks & 73,
>
>
>
> Gordon Beattie, W2TTT
>
>
>
> 201.314.6964
>
>
>
> -----
>
>
>
> From: ntms-hsmm@yahoogrou ps.com [mailto:ntms- hsmm@yahoogrou ps.com] On
>
> Behalf
>
>
>
> Of Glenn Currie
>
>
>
> Sent: Monday, September 14, 2009 3:19 AM
>
>
>
> To: ntms-hsmm@yahoogrou ps.com
>
>
>
> Subject: Re: [ntms-hsmm] ISO 6523 Naming for Networks, Services and
>
>
>
> Applications
>
>
>
> Lots of new stuff to consider as new horizons open up.
>
>

>
> Most of the world is going to IPv6 - eventually. But there is an almost
>
>
>
> infinite
>
>
>
> number of things you can layer on top of it.
>
>
>
> Thanks for the pointer I have down loaded it and will check it out. There
>
>
>
> is
>
>
>
> a lot of stuff form the old TexNet packet system that we still discuss as
>
>
>
> well.
>
>
>
> -Glenn
>
>
>
> kd5mfw@arrl. <mailto:kd5mfw% 40arrl.net> net
>
>
>
> --- On Sun, 9/13/09, J. Gordon Beattie, Jr., W2TTT <w2ttt@...
>
> <mailto:w2ttt% 40att.net>
>
>
>
> <mailto:w2ttt% 40att.net> > wrote:
>
>
>
> From: J. Gordon Beattie, Jr., W2TTT <w2ttt@... <mailto:w2ttt% 40att.net>
>
> <mailto:w2ttt% 40att.net>

>
>
>
> >
>
>
>
> Subject: [ntms-hsmm] ISO 6523 Naming for Networks, Services and Applications
>
>
>
> To: ntms-hsmm@yahoogrou <mailto:ntms- hsmm%40yahoogrou ps.com> ps.com
>
>
>
> Date: Sunday, September 13, 2009, 8:24 PM
>
>
>
> Hi Folks!
>
>
>
> Here is an idea that may be useful for structuring network element and
>
>
>
> service or application identifiers for Amateur Radio.
>
>
>
> Years ago, this was something that was cooked up to get us past the IP
>
>
>
> address space and broaden the naming conventions that we might choose to use
>
>
>
> within Amateur Radio. It was always thought that the old "protocol wars" of
>
>
>
> Amateur Packet Radio needed to be transcended and this was an intellectual
>
>
>
> product that may be useful in a broader context. With HSMM introducing
>
>

>
> notions of Hinternet and Internet interoperability, we might want to take a
>
>
>
> look at this coding scheme for our HSM networks, services and applications.
>
>
>
> Check out Code "0011" in the ISO 6523 document and perhaps we could start a
>
>
>
> dialogue on that either here or elsewhere.
>
>
>
> http://www.cyber- identity. com/download/ ICD-list. pdf
>
>
>
> Thanks & 73,
>
>
>
> Gordon Beattie, W2TTT
>
>
>
> 201.314.6964
>
>
>
> _____ Information from ESET Smart Security, version of virus signature
>
>
>
> database 4422 (20090913) _____
>
>
>
> The message was checked by ESET Smart Security.
>
>
>
> http://www.eset. com
>
>
>
> _____ Information from ESET Smart Security, version of virus signature

>
>
>
> database 4422 (20090913) __________
>
>
>
> The message was checked by ESET Smart Security.
>
>
>
> http://www.eset. com
>
>
>
> [Non-text portions of this message have been removed]
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>
> [Non-text portions of this message have been removed]
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>
>
> __________ Information from ESET Smart Security, version of virus signature
>
>
>
> database 4422 (20090913) __________
>
>
>
> The message was checked by ESET Smart Security.
>
>
>
> http://www.eset. com
>
>
>
> __________ Information from ESET Smart Security, version of virus signature
>
>
>
> database 4422 (20090913) __________
>
>
>
> The message was checked by ESET Smart Security.
>
>

>
> http://www.eset. com
>
>
>
> [Non-text portions of this message have been removed]
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>
>
> [Non-text portions of this message have been removed]
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> ----------
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>
>
> No virus found in this outgoing message.
>
> Checked by AVG - www.avg.com
>
> Version: 8.5.409 / Virus Database: 270.13.95/2368 - Release Date: 09/13/09 17:50:00
>
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>
> [Non-text portions of this message have been removed]
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>
> [Non-text portions of this message have been removed]
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> ----------
>
> Yahoo! Groups Links
>
>
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>
--

Kipton Moravec AE5IB .- . ... -...
==========
Four Way Test
Is it the Truth?
Is it Fair to all concerned?
Will it build Goodwill and Better Friendships?
Will it be Beneficial to all concerned?
- Herbert J Taylor (1932)

1599. Re: [ntms-hsmm] Meshing | E-Zy * EZ-Bridge-LT2

Yahoo group: DAWG-HSMM
Date: 2009-09-28 16:24:45 UTC
From: ALERTradio ERC | N0PCO
Topic: 1575 Message: 1599

Yes, the UBNT (Ubiquiti Networks) NanoStation would be good for meshing, the UBNT Bullet would be good for Long Haul Links.

For commercial off the shelf hardware that can be quickly be deployed the UBNT Bullet has some characteristics that make ideal for rapid deployment.

I tend to look for hardware that can be used for long haul links between fixed sites. Having the MESH option for more localized and "bread crumb" for extended coverage is great to have.

If one is creating a long haul link between two sites, how will a MESH network help in this case (when there's only two points)?

In a point-to-point link having a omni antenna would send energy where it wasn't needed.. Yet in a MESH network as you mentioned a good omni antenna definitely is a plus.

Mars, N0PCO
ALERTradio ERC
www.alertradio.net | www.asteriskradio.net | www.darnsimple.net

Robert Ellis wrote:
> On Sep 27, 2009, at 11:50 PM, ALERTradio ERC | N0PCO wrote:
>
>
>> As for the system hardware:
>>
>> Processor - Realtexk 8186
>> Speed - 200MHz MIPS
>> Flash - 2MB
>> SDRAM - 16MB
>> Radio RTL8225
>> Power Amplifier - SE2527
>>
>
> There are ports in progress of linux and/or openWRT to the RTL8186
> based systems.
>
> However, the real problem here is the size of the flash ... 2MB. The
> same sized
> flash in the wrt54g v5 was initially the reason that openWRT was not
> supported
> on that version of the router. (That limitation has been overcome for
> the micro
> version of dd-wrt: http://www.bitsum.com/openwiking/owbase/ow.asp?WRT54G5%5FCFE.)

>
> I believe you mentioned a (Ubiquiti) 'bullet' in one of your posts. If
> you are keen on
> using a system that is integrated into an antenna, pick one that is
> already
> supported by openWRT, such as the Ubiquiti Nanostation
(http://www.ubnt.com/products/nano.php
> , http://wiki.openwrt.org/oldwiki/openwrtdocs/hardware/ubiquiti/nanostation2)
> , some
> models of which have an external antenna connector. (Fans of olsr favour
> omnidirectional antennas rather than directional ones. In Austin,
> omni's have been
> used with wrt54g* routers to establish links of 7 miles.)
>
> (But, just because the openWRT website says a board is supported, that
> doesn't mean
> that that is true. I have two 'supported' wifi devices, neither of
> which have I been
> able to install openWRT on.)
>
> Again, HSMM-Mesh is only supported on certain versions of the wrt54g*
> routers. In
> particular, it is only supported on wrt54g* routers that have a flash
> size of at
> least 4MB. If you pick hardware other than wrt54g*, you are on your own.
>
>
> robert
>
>
>
>
>

[Non-text portions of this message have been removed]

1600. Re: [ntms-hsmm] Meshing | E-Zy * EZ-Bridge-LT2

Yahoo group: DAWG-HSMM
Date: 2009-09-28 18:49:03 UTC
From: Glenn Currie
Topic: 1575 Message: 1600

Mesh - a delicious desert topping or a durable floor wax? It's both!
This is from an old SNL
skit.

No system is perfectly optimized for all uses. There are hundreds of papers published on the Internet you can pick up with a Google search that explain what a mesh is.

A Google search of "wikipedia mesh network" might be a good place to start.

If you do not have enough nodes to provide an alternate path and a node is lost, the connection is lost.

You have choices - you can either have more nodes - redundancy has been used forever in aerospace, and military applications and still works. Or you can take the time to replace the dead node and restore the link.

The overhead of running the mesh code is rather low and IF you do have another link - portable or temporary, you can get the link going again quickly. If you have a working mesh node, and take it up the tower, you can turn it on while you fix the broken existing one.

One key element of a mesh system is redundancy. If you have a sparse enough network that you cannot support mesh functions, then the mesh does you no good. Enough broken equipment is useless no mater what code it might have. Few aircraft fly when the wings fall off or when all the engines fail.

The HSMM-MESH nodes work find for point to point links - have more than one set of links if the link is that important and use directional antennas for the point to point links.

When you have multiple nodes that can see each other, then the omni antennas are best in that it will provide multiple paths for data, if the mesh is dense enough.

So point to point, use directional antennas. If the link is broken due to a power outage or whateever, the OLSR will auto link again as soon as the power is reapplied. That is not true of all systems. Some links require you to manually do something to re-establsh the link. OLSR is free and helps with a number of mobile and portable issues so lots of people are starting to use it.

You need to understand the limitations of OLSR which are explained at www.olsr.org. HSMM-MESH uses OLSR plus a numbe of other features incuding a particular addressing scheme that are not formally part of OLSR. So just because some piece of equipment uses an OLSR software module, you need to know what is built up around that as a "system" to be sure the systems will link.

HSMM-MESH is a SYSTEM that includes the use of OLSR as a module, but that is not the whole system.

TCP/IP is widely used. But you have to understand the system built around it to know if your TCP/IP system can link to another system. A knowledge of some of the modules is not sufficient to guarentee interoperability - by a long shot.

Given time, many of the hardware platforms that can support OLSR and other needed software modules might work together. But it could take years of spare time development work to make it happen. Some systems might just link and pass data.

Thanks to all those digging up the specifics to sort out what will work. Lots of hardware out there can work. We just have not had time to test is all and the toy budget is limited as well.

Share what you find out. There is a lot of slick hardware out there.

-Glenn

As hams set up networks of mesh nodes, they will have what are refered to a "pocket networks". This is, pockets of isolated networks. The challenge then is to see how you can connect the pocket networks, either permanantly with a new set of links, or temporarly in an emergency, using portable equipment that goes away after an incident.

--- On Mon, 9/28/09, ALERTradio ERC | N0PCO <n0pco@...> wrote:

From: ALERTradio ERC | N0PCO <n0pco@...>
Subject: Re: [ntms-hsmm] Meshing | E-Zy * EZ-Bridge-LT2
To: ntms-hsmm@yahoogroups.com
Date: Monday, September 28, 2009, 11:24 AM

Yes, the UBNT (Ubiquiti Networks) NanoStation would be good for meshing,

the UBNT Bullet would be good for Long Haul Links.

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deployment.

I tend to look for hardware that can be used for long haul links between

fixed sites. Having the MESH option for more localized and "bread

crumb" for extended coverage is great to have.

If one is creating a long haul link between two sites, how will a MESH

network help in this case (when there's only two points)?

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it wasn't needed.. Yet in a MESH network as you mentioned a good omni

antenna definitely is a plus.

Mars, N0PCO

ALERTradio ERC

www.alertradio. net | www.asteriskradio. net | www.darnsimple. net

Robert Ellis wrote:

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>

>

>> As for the system hardware:

>>

>> Processor - Realtexk 8186

>> Speed - 200MHz MIPS

>> Flash - 2MB

>> SDRAM - 16MB

>> Radio RTL8225

>> Power Amplifier - SE2527

>>

>

> There are ports in progress of linux and/or openWRT to the RTL8186

> based systems.

>

> However, the real problem here is the size of the flash ... 2MB. The

> same sized

> flash in the wrt54g v5 was initially the reason that openWRT was not

> supported

> on that version of the router. (That limitation has been overcome for

> the micro

> version of dd-wrt: http://www.bitsum. com/openwiking/ owbase/ow. asp?WRT54G5% 5FCFE.)

>

> I believe you mentioned a (Ubiquiti) 'bullet' in one of your posts. If

> you are keen on

> using a system that is integrated into an antenna, pick one that is

> already

> supported by openWRT, such as the Ubiquiti Nanostation (http://www.ubnt. com/products/ nano.php

> , http://wiki. openwrt.org/ oldwiki/openwrtd ocs/hardware/ ubiquiti/ nanostation2)

> , some

> models of which have an external antenna connector. (Fans of olsr favour

> omnidirectional antennas rather than directional ones. In Austin,

> omni's have been

> used with wrt54g* routers to establish links of 7 miles.)

>

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> doesn't mean

> that that is true. I have two 'supported' wifi devices, neither of

> which have I been

> able to install openWRT on.)

>

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> routers. In

> particular, it is only supported on wrt54g* routers that have a flash

> size of at

> least 4MB. If you pick hardware other than wrt54g*, you are on your own.

>

>

> robert

>

>

>

>

>

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[Non-text portions of this message have been removed]

1601. uhsmm? (plano city cncl minutes)

Yahoo group: DAWG-HSMM
Date: 2009-09-30 04:22:58 UTC
From: Robert Ellis
Topic: 1601 Message: 1601

From the latest Plano city council meeting:

Approval of Change Order
To Motorola, Inc., increasing the contract by $151,113 for providing labor and materials for transferring DragonWave links from two water towers to communication towers through an existing contract/agreement with Houston Galveston Area Council (HGAC), and authorizing the City Manager to execute all necessary documents. (HGAC Contract No. RA01-06) (Consent Agenda “I”)

Hmm. DragonWave?
http://www.dragonwaveinc.com/docs/products/DragonWave-Brochure-Sept-2009.pdf
up to 4Gbps! Now, that's what I call ultra hsmm. ;) Alas, it only costs $12k per link (which really isn't bad considering that some high end HF radios cost nearly as much.)

Maybe when 6G is rolled out, some of these old transceivers will be available on ebay. ;)

I wonder what these DragonWave links are being used for...

robert

1602. Re: [ntms-hsmm] uhsmm? (plano city cncl minutes)

Yahoo group: DAWG-HSMM
Date: 2009-09-30 13:06:40 UTC
From: Josh Mercer
Topic: 1601 Message: 1602

Most likely they are being used for ethernet backhaul, possibly from the
Moto aggregation sites for the mesh network...

Robert Ellis wrote:
> From the latest Plano city council meeting:
>
>
> Approval of Change Order
> To Motorola, Inc., increasing the contract by $151,113 for providing
> labor and materials for transferring DragonWave links from two water
> towers to communication towers through an existing contract/agreement
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> available on ebay. ;)
>
>
> I wonder what these DragonWave links are being used for...
>
> robert

1603. Re:uhsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-30 15:19:00 UTC
From: rddunnin@rockwellcollins.com
Topic: 1603 Message: 1603

Plano uses a Moto-Mesh network for public safety and municipal data linking. It is a MANET network providing automatic configuration, self healing, networking for data communication primarily in mobile vehicles like police, fire, code and utility metering. This is probably an upgrade to the network "trunk" nodes. Though MANET networks are self forming and blur/eliminate the router/client dichotomy there are usually certain high performance nodes in the system that act as "backbone" to reduce the hop count on packets traversing the entire city. We had a similar system in Garland with 2Mbps nodes and some 6Mbps super nodes. That equipment is being taken down because some geniuses on the City Council defunded the maintenance of the network and then were shocked, stunned, and amazed that the network didn't perform to specification. These same geniuses concluded that mesh networks don't work and using them is a fools errand. That is the price of electing people who are technically illiterate.

RD - KC5QHH

[Non-text portions of this message have been removed]

1604. Re: [ntms-hsmm] Re:uhsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-30 15:44:59 UTC
From: Josh Mercer
Topic: 1603 Message: 1604

What?? An infrastructure has to be maintained to keep performing as intended?? :)

From what I can tell by looking at what is installed and what I have read about the network, they are using Moto Canopy for the "trunk" (gateway) nodes. These Canopy devices are most likely (from what I have see in other networks like this) running on 5.8 GHz and they are aggregating back to tower sites around the city. The tower sites are then interconnected with the Dragonwaves.

One downside to an all-Moto solution is that the Canopy devices have very low throughput (2.5 Mbps to 3 Mbps max) and pretty high latency. Even if they can get 6 Mbps to 12 Mbps from the client to the node, the packet has to take up to 4 or 5 hops to a gateway node and then over the Canopy before it even gets to the Dragonwave.

rddunnin@... wrote:
>
>
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> linking. It is a MANET network providing automatic configuration, self
> healing, networking for data communication primarily in mobile vehicles
> like police, fire, code and utility metering. This is probably an upgrade
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> RD - KC5QHH
>
> [Non-text portions of this message have been removed]
>
>

1605. Re: [ntms-hsmm] Re:uhsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-30 18:55:13 UTC
From: Glenn Currie
Topic: 1603 Message: 1605

Lots of people using mesh for lots of useful things.

The HSMM-MESH stuff we have been working on is just a shot at an inexpensive ham version of a mesh. We will continue improving it as resources allow. There are some nice commercial and military systems in use, but ALL require maintenance.

Maintenance and spare parts has always been part of keeping equipment working.

Helicopters and jet fighter planes are real impressive but some folks have no idea how much maintenance they take - it is staggering!

I guess we can take from this that if you are thinking of setting up some sort of ham mesh, and you intend it to be functional for quite a while (not just a quick demo system) you really need to have some maintenance plan in place.

We have already started looking at how to do quick swaps of broken mesh nodes on tower mounted boxes. We are trying to get it where you take out about 3 screws once you have the enclosure open, then swap the entire electronic guts of the node, slap in a new module,
and take the old one down the tower, analysis back in the radio shack with coffee, donuts, tools and good lighting, climate control test gear etc.

Sorry to hear about overlooking the "maintenance" part of the budget and mesh networking getting a bad name for it. All this type stuff is engineered to certain specs and get outside those specks and it will break.

Also, a super important lesson here is if you are putting in a ham based ECOM mesh be real aware of key folks in served agencies not understanding about maintenance. This is a very common class of real world "non technical" problem, that can cause problems keeping your mesh on the air.

Lots of nice radio sites (building roofs etc.) many times have limited access so the maintenance issue is real important to consider. Access to these type sites has always been limited for basic safety reason but since 9/11 new security regulatioons is making some sites really hard to get to when you need to make any sort of change to your gear at the host site.

Seems like a bit of a silly story, but I have come across it many times.
Keep this stuff in mind. It is not silly when you get caught by this sort of thing. It is real frustrating.

-Glenn

--- On Wed, 9/30/09, rddunnin@... <rddunnin@...m> wrote:

From: rddunnin@... <rddunnin@...>
Subject: [ntms-hsmm] Re:uhsmm
To: ntms-hsmm@yahoogroups.com

Date: Wednesday, September 30, 2009, 10:19 AM

Plano uses a Moto-Mesh network for public safety and municipal data linking. It is a MANET network providing automatic configuration, self healing, networking for data communication primarily in mobile vehicles like police, fire, code and utility metering. This is probably an upgrade to the network "trunk" nodes. Though MANET networks are self forming and blur/eliminate the router/client dichotomy there are usually certain high performance nodes in the system that act as "backbone" to reduce the hop count on packets traversing the entire city. We had a similar system in Garland with 2Mbps nodes and some 6Mbps super nodes. That equipment is being taken down because some geniuses on the City Council defunded the maintenance of the network and then were shocked, stunned, and amazed that the network didn't perform to specification. These same geniuses concluded that mesh networks don't work and using them is a fools errand. That is the price of electing people who are technically illiterate.

RD - KC5QHH

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[Non-text portions of this message have been removed]

1606. Re: [ntms-hsmm] Re:uhsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-30 18:55:24 UTC
From: Glenn Currie
Topic: 1603 Message: 1606

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Keep this stuff in mind. It is not silly when you get caught by this sort of thing. It is real frustrating.

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--- On Wed, 9/30/09, rddunnin@... <rddunnin@...m> wrote:

From: rddunnin@... <rddunnin@...>
Subject: [ntms-hsmm] Re:uhsmm
To: ntms-hsmm@yahoogroups.com

Date: Wednesday, September 30, 2009, 10:19 AM

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RD - KC5QHH

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[Non-text portions of this message have been removed]

1607. Re: [ntms-hsmm] Re:uhsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-30 19:03:25 UTC
From: Glenn Currie
Topic: 1603 Message: 1607

Well, I just made some comments on mainteance earlier, but
I am real intersted in learning how the Motorola Canopy and competitive
systems work out in the field.

There are easy to find sales docuemnts on the Internet, but sold field
experince is valuable and hard to come buy.

Perhaps this is a large enough topic to add to the new website we
hope to have up sometime for HSMM-MESH. The more I work with this stuff
the more I realize I don't know.

The RF landscape is changing All the time and I have trouble keeping up with it,
but for setting up our own mesh networks, the more we know about what everyone
else is doing the better off we are and can do a better job.

At some point this commercial gear will become surplus and the classic trick
for hams is to know what stuff you can get and easily modify, and what stuff
would take more effort than it was worth to try.

So I am real interested in the filed experience with the Motorola WiMAX systems.

So many projects, so little time.

-Glenn

--- On Wed, 9/30/09, Josh Mercer <josh_mercer@...> wrote:

From: Josh Mercer <josh_mercer@...>
Subject: Re: [ntms-hsmm] Re:uhsmm
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, September 30, 2009, 10:44 AM

What?? An infrastructure has to be maintained to keep performing as

intended?? :)

From what I can tell by looking at what is installed and what I have

read about the network, they are using Moto Canopy for the "trunk"

(gateway) nodes. These Canopy devices are most likely (from what I have

see in other networks like this) running on 5.8 GHz and they are

aggregating back to tower sites around the city. The tower sites are

then interconnected with the Dragonwaves.

One downside to an all-Moto solution is that the Canopy devices have

very low throughput (2.5 Mbps to 3 Mbps max) and pretty high latency.

Even if they can get 6 Mbps to 12 Mbps from the client to the node, the

packet has to take up to 4 or 5 hops to a gateway node and then over the

Canopy before it even gets to the Dragonwave.

rddunnin@rockwellco llins.com wrote:

>

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> RD - KC5QHH

>

> [Non-text portions of this message have been removed]

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1608. RE: [ntms-hsmm] Re:uhsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-30 19:53:12 UTC
From: Dave
Topic: 1603 Message: 1608

Hi Glenn-

You are so correct that the field is morphing as we speak. In almost any meeting or conversation about HSMM someone comes up with yet another option, possibility or feature. It's not easy to keep up and maybe we shouldn't. I don't think we can catch this wave but we may be able to surf on it.

We need a solid plan, philosophy and concept and we can then put anything in place to meet the need. PTP or Mesh, short-haul or long-distance, inside-the-zone, or outside-the-zone, low-power, high-power, Yagi or omni.... The options go on endlessly.

Let's decide what fits what need, do a simple matrix with a cost bracket and shove off from the port.

I see EZ-Bridge as a quick-n-easy system; Bullet as a great option if one has the necessary required parts... Whether Linux based or PC based doesn't matter if what we design includes hammers with network folks.

The first step is to decide what can be done *now* with a modest amount of money, and then develop an approach to hammers that we can 'take on the road'. Most of that already exists, but we shouldn't lose sight that hammers use older equipment, slower in data speed if it does it at all, and like to keep things simple -don't we all?

So; an EZ_Bridge PTP system, a 5-port switch at both ends, PCs at both ends with one server at the base end, a GPL software suite that includes voice, data, video (OpenFire with Spark), and a philosophy of who the target audience is.

That's important because of the legal limitations that hammers have on message traffic. So; HSMM as short-haul high-intensity traffic, and HF for long-distance low-speed traffic. Mixed in with Paclink, RMS, internet, and cell phones.

I think that may be enough to start with. I'm going to write something up and put it out for comment and revision, without ownership except to start the ball rolling.

Glenn, you have it right. Now the best way to reduce turbulence is to reduce options. Let's narrow it down?

Dave Mynatt
Program Director
Combined Science Center
/==========/
http://sciencecenter.no-ip.org

SID ID #S-0258
APRS Tier II Server @ http://pueblo.aprs2.net:14501
10 meter CW Beacon @ 28.234.5Mhz
RMS Server: 144.950Mhz KA0SWT-10
LAT: 38.26349"N LON: -104.613297"W Alt: 1460m
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++++/

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Glenn Currie
Sent: Wednesday, September 30, 2009 13:03
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Re:uhsmm

Well, I just made some comments on mainteance earlier, but I am real intersted in learning how the Motorola Canopy and competitive systems work out in the field.

There are easy to find sales docuemnts on the Internet, but sold field experince is valuable and hard to come buy.

Perhaps this is a large enough topic to add to the new website we hope to have up sometime for HSMM-MESH. The more I work with this stuff the more I realize I don't know.

The RF landscape is changing All the time and I have trouble keeping up with it, but for setting up our own mesh networks, the more we know about what everyone else is doing the better off we are and can do a better job.

At some point this commercial gear will become surplus and the classic trick for hams is to know what stuff you can get and easily modify, and what stuff would take more effort than it was worth to try.

So I am real interested in the filed experience with the Motorola WiMAX systems.

So many projects, so little time.

-Glenn

--- On Wed, 9/30/09, Josh Mercer <josh_mercer@sbcglobal.net> wrote:

From: Josh Mercer <josh_mercer@...>
Subject: Re: [ntms-hsmm] Re:uhsmm
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, September 30, 2009, 10:44 AM

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Canopy before it even gets to the Dragonwave.

rddunnin@rockwellco llins.com wrote:

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>

> RD - KC5QHH

>

> [Non-text portions of this message have been removed]

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>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.409 / Virus Database: 270.13.115/2403 - Release Date: 09/29/09 17:56:00

[Non-text portions of this message have been removed]

1609. Re: [ntms-hsmm] Re:uhsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-30 20:25:49 UTC
From: Josh Mercer
Topic: 1603 Message: 1609

Glenn Currie wrote:
>
>
> Well, I just made some comments on mainteance earlier, but
> I am real intersted in learning how the Motorola Canopy and competitive
> systems work out in the field.
I dont think the canopy can be modified at all, from a firmware
perspective. It operates in unlicensed spectrum, but does not utilize
any standard (802.11, 802.16, etc) and is totally proprietary and will
only link with other canopy's. The base stations are gps synced so that
they will not interfere with other canopy base stations in the area. All
in all they work, but are not very spectrum efficient and is just old
technology.
>
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> would take more effort than it was worth to try.
Right now, Canopy base stations are relatively (around $1000 per base
station if I remember right) inexpensive, but only work with other
Canopy radios...
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> So I am real interested in the filed experience with the Motorola WiMAX
> systems.
The only Moto WiMAX stuff I know if is in the 2.5 GHz (licensed EBS/BRS)
spectrum. Moto-mesh uses 802.11 on the 2.4 GHz side, but not sure about
the 4.9 GHz side.
>
> So many projects, so little time.
Thats for sure!

If I had a healthy budget, I would use something like a PoE Gateworks
embedded board with Ubiquiti mini-pci radios. Just dedicating one radio

to mesh and another radio to client access helps a LOT for latency and throughput. I would couple this via CAT5 with the Ubiquiti Nanostation in areas that LoS to a tower with another Nanostation can be achieved for connecting mesh nodes to the tower.

As far as that goes, using a 3rd radio in the Gateworks board and a directional antenna, one could have PtMP, mesh and access each on their own radio and all in the same device. I have not tried this configuration yet, but seems like the software I have tried can support it.

The Ubiquiti Nanostations are cheap enough for this application and the Gateworks boards can be loaded with a variety of software, including OpenWRT/DD-WRT. As far as the Gateworks/Ubiquiti setup, all of the components are relatively inexpensive but putting them all together can add up, somewhere in the $250 to $350 range per node.

I have assembled/configured some Gateworks systems with 2 radios and loaded several different kinds of software on it (Ikarus, OpenWRT, WiLi-Mesh), and have had very good results in range and throughput. Unfortunately this was not on my budget, so I dont have any of the hardware anymore :(

1610. Re: [ntms-hsmm] Re:uhsmm

Yahoo group: DAWG-HSMM
Date: 2009-09-30 21:18:51 UTC
From: Robert Ellis
Topic: 1603 Message: 1610

On Sep 30, 2009, at 2:03 PM, Glenn Currie wrote:

> There are easy to find sales docuemnts on the Internet, but solid
> field experince is valuable and hard to come by.

Motorola staffing 4G wireless center in Austin:
http://www.planetanalog.com/news/showArticle.jhtml?articleID=172901600

While 4g isn't wifi, perhaps you could get some Motorola 4g guy (with
an understanding of Motorola's wifi products) to give a talk at a
Digital Wednesday meeting ...

robert

1611. Re: [ntms-hsmm] Re:uhsmm

Yahoo group: DAWG-HSMM
Date: 2009-10-01 07:08:22 UTC
From: Glenn Currie
Topic: 1603 Message: 1611

Thanks for the info. Sounds like if I ever get offered any Motorola Canopy gear, I should turn it down. This is a great time saver. Into the dumpster with the stuff in a few years.

-Glenn

--- On Wed, 9/30/09, Josh Mercer <josh_mercer@...> wrote:

From: Josh Mercer <josh_mercer@sbcglobal.net>
Subject: Re: [ntms-hsmm] Re:uhsmm
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, September 30, 2009, 3:25 PM

Glenn Currie wrote:

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for connecting mesh nodes to the tower.

As far as that goes, using a 3rd radio in the Gateworks board and a directional antenna, one could have PtMP, mesh and access each on their own radio and all in the same device. I have not tried this configuration yet, but seems like the software I have tried can support it. The Ubiquiti Nanostations are cheap enough for this application and the Gateworks boards can be loaded with a variety of software, including OpenWRT/DD-WRT. As far as the Gateworks/Ubiquiti setup, all of the components are relatively inexpensive but putting them all together can add up, somewhere in the $250 to $350 range per node.

I have assembled/configure d some Gateworks systems with 2 radios and loaded several different kinds of software on it (Ikarus, OpenWRT, WiLi-Mesh), and have had very good results in range and throughput. Unfortunately this was not on my budget, so I dont have any of the hardware anymore :(

[Non-text portions of this message have been removed]

1612. Re: [ntms-hsmm] Re:uhsmm

Yahoo group: DAWG-HSMM
Date: 2009-10-01 07:08:21 UTC
From: Glenn Currie
Topic: 1603 Message: 1612

Thanks for the info. Sounds like if I ever get offered any Motorola Canopy gear, I should turn it down. This is a great time saver. Into the dumpster with the stuff in a few years.

-Glenn

--- On Wed, 9/30/09, Josh Mercer <josh_mercer@...> wrote:

From: Josh Mercer <josh_mercer@sbcglobal.net>
Subject: Re: [ntms-hsmm] Re:uhsmm
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, September 30, 2009, 3:25 PM

Glenn Currie wrote:

>

>

> Well, I just made some comments on mainteance earlier, but

> I am real intersted in learning how the Motorola Canopy and competitive

> systems work out in the field.

I dont think the canopy can be modified at all, from a firmware

perspective. It operates in unlicensed spectrum, but does not utilize

any standard (802.11, 802.16, etc) and is totally proprietary and will

only link with other canopy's. The base stations are gps synced so that

they will not interfere with other canopy base stations in the area. All

in all they work, but are not very spectrum efficient and is just old

technology.

>

> There are easy to find sales docuemnts on the Internet, but sold field

> experince is valuable and hard to come buy.

>

> Perhaps this is a large enough topic to add to the new website we

> hope to have up sometime for HSMM-MESH. The more I work with this stuff

> the more I realize I don't know.

>

> The RF landscape is changing All the time and I have trouble keeping up

> with it,

> but for setting up our own mesh networks, the more we know about what

> everyone

> else is doing the better off we are and can do a better job.

>

> At some point this commercial gear will become surplus and the classic trick

> for hams is to know what stuff you can get and easily modify, and what stuff

> would take more effort than it was worth to try.

Right now, Canopy base stations are relatively (around $1000 per base

station if I remember right) inexpensive, but only work with other

Canopy radios...

>

> So I am real interested in the filed experience with the Motorola WiMAX

> systems.

The only Moto WiMAX stuff I know if is in the 2.5 GHz (licensed EBS/BRS)

spectrum. Moto-mesh uses 802.11 on the 2.4 GHz side, but not sure about

the 4.9 GHz side.

>

> So many projects, so little time.

Thats for sure!

If I had a healthy budget, I would use something like a PoE Gateworks

embedded board with Ubiquiti mini-pci radios. Just dedicating one radio

to mesh and another radio to client access helps a LOT for latency and

throughput. I would couple this via CAT5 with the Ubiquiti Nanostation

in areas that LoS to a tower with another Nanostation can be achieved

for connecting mesh nodes to the tower.

As far as that goes, using a 3rd radio in the Gateworks board and a directional antenna, one could have PtMP, mesh and access each on their own radio and all in the same device. I have not tried this configuration yet, but seems like the software I have tried can support it. The Ubiquiti Nanostations are cheap enough for this application and the Gateworks boards can be loaded with a variety of software, including OpenWRT/DD-WRT. As far as the Gateworks/Ubiquiti setup, all of the components are relatively inexpensive but putting them all together can add up, somewhere in the $250 to $350 range per node.

I have assembled/configure d some Gateworks systems with 2 radios and loaded several different kinds of software on it (Ikarus, OpenWRT, WiLi-Mesh), and have had very good results in range and throughput. Unfortunately this was not on my budget, so I dont have any of the hardware anymore :(

[Non-text portions of this message have been removed]

1613. Re: [ntms-hsmm] Re:uhsmm

Yahoo group: DAWG-HSMM
Date: 2009-10-01 07:17:14 UTC
From: Glenn Currie
Topic: 1603 Message: 1613

Sounds good to me. I can read faster than most folks can talk,
so unless the presentation contained anything more than the
sales literature, I really don't think anyone would listen to a presentation.

Motorola wants to sell expensive stuff to big clients not make stuff hams
can cheaply modify.

I did a series of guest speakers for The Robot Group in Austin for a while.
U.T. Austin supplied some fantastic profs and grad student talks. Commercial
companies sent salesmen that did not know how anything worked to
deliver a sales pitch.

Still there are some hams that work at some of the big places around town.
I could ask if they could, realistically, send out a technical speaker. We are
not big potential customers so they have no financial incentive to come tell
us how their proprietary systems work. But who knows, I will check around.

-Glenn

--- On Wed, 9/30/09, Robert Ellis <k5osx@...> wrote:

From: Robert Ellis <k5osx@...>
Subject: Re: [ntms-hsmm] Re:uhsmm
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, September 30, 2009, 4:18 PM

On Sep 30, 2009, at 2:03 PM, Glenn Currie wrote:

> There are easy to find sales docuemnts on the Internet, but solid

> field experince is valuable and hard to come by.

Motorola staffing 4G wireless center in Austin: http://www.planetan alog.com/
news/showArticle .jhtml?articleID =172901600

While 4g isn't wifi, perhaps you could get some Motorola 4g guy (with

an understanding of Motorola's wifi products) to give a talk at a

Digital Wednesday meeting ...

robert

[Non-text portions of this message have been removed]

1614. ANTENNAS

Yahoo group: DAWG-HSMM
Date: 2009-10-05 04:12:15 UTC
From: BILL
Topic: 1614 Message: 1614

Anyone know anything about a company in Austin named Wifi Link at 11110 Metro Blvd Suite C. Austin, Tx 78758 (512) 535-2621. He has what look like some 2.4 verticle antennas with 12 to 15 dBi for 40 to $45 when purchased in quantity.

http://www.wifi-link.com/us_wholesales.php?type=05#24ghz

I am thinking that most of the nodes I am planning will be ap nodes with a computer to handle servered Agency messages. Anyone know anything about this company or these antennas? He does not give a manufacturer.

Bill Wallace

1615. Re: ANTENNAS

Yahoo group: DAWG-HSMM
Date: 2009-10-05 13:05:17 UTC
From: Steve W3AHL
Topic: 1614 Message: 1615

While the price looks good, I would suggest spending a little more to get an H-polarized antenna, such as:

http://www.wlanparts.com/product/ODH24-13/13dBi_24GHz_Horiz_Pol_Omnidirectional.html

This is a slotted waveguide design for about $200. H-pol will reduce interference considerably. The grounded metal waveguide gives better lightning immunity. Any extra money spent on a good antenna will be a wise investment! They are also relatively easy to build for about $65 (especially if you are doing 10+ antennas and can get a machine shop to mill the slots).

Steve, W3AHL

--- In ntms-hsmm@yahoogroups.com, "BILL" <bill@...> wrote:
>
> Anyone know anything about a company in Austin named Wifi Link at 11110 Metro Blvd Suite C. Austin, Tx 78758 (512) 535-2621. He has what look like some 2.4 verticle antennas with 12 to 15 dBi for 40 to $45 when purchased in quantity.
>
> http://www.wifi-link.com/us_wholesales.php?type=05#24ghz
>
> I am thinking that most of the nodes I am planning will be ap nodes with a computer to handle servered Agency messages. Anyone know anything about this company or these antennas? He does not give a manufacturer.
>
> Bill Wallace
>

1616. H-Polarised ANTENNAS

Yahoo group: DAWG-HSMM
Date: 2009-10-05 13:57:05 UTC
From: James C. Duram
Topic: 1616 Message: 1616

Steve,

Where is their info on building these antennas?

Jim, K8COP

1617. Re: [ntms-hsmm] H-Polarised ANTENNAS

Yahoo group: DAWG-HSMM
Date: 2009-10-05 14:33:01 UTC
From: Robert Ellis
Topic: 1616 Message: 1617

On Oct 5, 2009, at 8:57 AM, James C. Duram wrote:

> Steve,
>
> Where is their info on building these antennas?
>
> Jim, K8COP

try these:
http://freenet-antennas.com/PHP-Nuke/modules.php?name=News&file=article&sid=1
http://trevormarshall.com/waveguides.htm
both have useful links to other sites...

fyi,
robert

1618. Re: H-Polarised ANTENNAS

Yahoo group: DAWG-HSMM
Date: 2009-10-06 12:55:38 UTC
From: Steve W3AHL
Topic: 1616 Message: 1618

Another link is: http://www.seattlewireless.net/SlottedWaveguide

The two links I had for some useful optimizations appear to have changed, so I need to do some searching. The first reduces the vertical lobes by slightly tweaking the size of the slots toward the ends of the waveguide. A second improves the horizontal pattern by adding "wings" to the sides of the waveguide to prevent phase cancellation of energy that wraps around the edges.

I'm getting ready for an ARES drill this weekend, so it may take a couple of days to find these tweaks. But even the standard designs work well (none of the ones we bought were optimized).

Steve, W3AHL

--- In ntms-hsmm@yahoogroups.com, Robert Ellis <k5osx@...> wrote:
>
>
> On Oct 5, 2009, at 8:57 AM, James C. Duram wrote:
>
> > Steve,
> >
> > Where is their info on building these antennas?
> >
> > Jim, K8COP
>
> try these:
> http://freenet-antennas.com/PHP-Nuke/modules.php?name=News&file=article&sid=1
> http://trevormarshall.com/waveguides.htm
> both have useful links to other sites...
>
> fyi,
> robert
>

1619. Re: [ntms-hsmm] Re: ANTENNAS

Yahoo group: DAWG-HSMM
Date: 2009-10-06 16:52:47 UTC
From: Glenn Currie
Topic: 1614 Message: 1619

Last time I went to find this place, it ended up being a "rent a PO box" place. When I cannot find the physical location of a business, I do not buy from them. These folks may have a physical location they will disclose now, but not the last time I went looking for them.

--

The slotted waveguide antennas work well, but you need to have them in some sort of fiberglass or similar radome or insects consider the antenna a condo and such things as mud dobber wasps end up filling the whole wave guide with crud and the antenna performance degrades to near useless.

I have experimented with covering the slots with Kapton tape and that lasts for about 1 year in the weather.

So some sort of plastic or plastic like radome seems to be the best way to make these antennas work for extended periods outdoors.

They do work well, when properly constructed and the basic design is quite slick.

-Glenn

--- On Mon, 10/5/09, Steve W3AHL <w3ahl@...> wrote:

From: Steve W3AHL <w3ahl@...>
Subject: [ntms-hsmm] Re: ANTENNAS
To: ntms-hsmm@yahoogroups.com
Date: Monday, October 5, 2009, 8:05 AM

While the price looks good, I would suggest spending a little more to get an H-polarized antenna, such as:

http://www.wlanpart s.com/product/ ODH24-13/ 13dBi_24GHz_ Horiz_Pol_ Omnidirectional. html

This is a slotted waveguide design for about $200. H-pol will reduce interference considerably. The grounded metal waveguide gives better lightning immunity. Any extra money spent on a good antenna will be a wise investment! They are also relatively easy to build for about $65 (especially if you are doing 10+ antennas and can get a machine shop to mill the slots).

Steve, W3AHL

--- In ntms-hsmm@yahoogrou ps.com, "BILL" <bill@...> wrote:

>

> Anyone know anything about a company in Austin named Wifi Link at 11110 Metro Blvd Suite C. Austin, Tx 78758 (512) 535-2621. He has what look like some 2.4 verticle antennas with

12 to 15 dBi for 40 to $45 when purchased in quantity.

>

> http://www.wifi- link.com/ us_wholesales. php?type= 05#24ghz

>

> I am thinking that most of the nodes I am planning will be ap nodes with a computer to handle servered Agency messages. Anyone know anything about this company or these antennas? He does not give a manufacturer.

>

> Bill Wallace

>

[Non-text portions of this message have been removed]

1620. Introductory Class on Linux at Senior Center

Yahoo group: DAWG-HSMM
Date: 2009-10-09 17:42:54 UTC
From: Kilgore
Topic: 1620 Message: 1620

For Seniors interested in learning about the Linux operating system, there is to be a 4 week class held at the Richardson Senior Center. Frank Davis will be the instructor.

See:
http://www.cor.net/WorkArea/DownloadAsset.aspx?id=1146

Doug Kilgore

1621. New 23cm (1.2 GHz) D-STAR Group

Yahoo group: DAWG-HSMM
Date: 2009-10-15 18:20:48 UTC
From: Mark Thompson
Topic: 1621 Message: 1621

A new group, D-STAR_23cm has been created to discuss the use of D-STAR Digital Voice (DV) and High-Speed Data (DD) on the 23cm (1.2 GHz) band
using the Icom ID-1 mobile, IC-9100 transceiver, RP-1V & RP-2V Digital Voice Repeaters, RP-1D & RP-2D Data Access Points
and applications using both the 23cm High-Speed IP Data(DD) & the Digital Voice(DV) Low-speed Data capabilities.

The group can be joined & accessed at: http://groups.yahoo.com/group/D-STAR_23cm/

Look forward to your participation in the group.

73, Mark, WB9QZB

[Non-text portions of this message have been removed]

1622. Wearable device turns troops into walking mesh nodes, extending network range

Yahoo group: DAWG-HSMM
Date: 2009-10-16 11:49:08 UTC
From: k8cop
Topic: 1622 Message: 1622

October 2009 edition of Urgent Communications:

http://urgentcomm.com/networks_and_systems/mag/wearable-mesh-network-nodes-200910/

Jim, K8COP

1623. Re: Wearable device turns troops into walking mesh nodes, extending network range

Yahoo group: DAWG-HSMM
Date: 2009-10-17 04:22:38 UTC
From: BILL
Topic: 1622 Message: 1623

Seems to me that it would be easy to trianglate their signals and nail the troops to the ground since you know where they are. is they are using 802 11g, it chirps all the time. No hard to figure out where the chirps are coming from and how fast they are moving. No encryptization will keep you from just listening to the channel and triangulate their position, do not have to break the crypto.

Bill Wallace

--- In ntms-hsmm@yahoogroups.com, "k8cop" <jimk8cop@...> wrote:
>
> October 2009 edition of Urgent Communications:
>
>
>
> http://urgentcomm.com/networks_and_systems/mag/wearable-mesh-network-nodes-200910/
>
>
> Jim, K8COP
>

1624. WRT54GL routing capability

Yahoo group: DAWG-HSMM
Date: 2009-10-17 05:08:51 UTC
From: John Barrett
Topic: 1624 Message: 1624

Does anyone know if the WRT54GL is capable of handling each of the ethernet ports as though it were a seperate interface ?? or do the 4 "internal" network ports appear as a single ethernet interface to the firmware ??

I'm looking at a situation where I will need to route traffic from the "public" side of the system to one of several devices that will be handing backhaul communications, with the ability to switch all traffic to a different backhaul link on demand based on the availability and tested reliability of each backhaul link, or upon receipt of an overriding command to switch to a specific link. I'm planning to have all the link testing and switching built into the GL firmware if at all possible so that once set it can operate without an external PC to control the process.

From my limited experience with the linux firewall and linux routing, it just seems like it will be easier if each backhaul device appears to be on an independent network, but if that isnt possible, it can probably be made to work by switching the ip address of the default gateway as needed to address the specific backhaul device, given that the backhaul devices can be made to co-exist on the same subnet without issues.

Comments appreciated :)

John AE5ET Barrett

1625. Re: [ntms-hsmm] WRT54GL routing capability

Yahoo group: DAWG-HSMM
Date: 2009-10-17 05:41:54 UTC
From: Glenn Currie
Topic: 1624 Message: 1625

The WAN port is one network device.
The radio is one network device
The 4 port LAN switch is one network device.

It sounds like it would be a better fit if each of the 4 ports on the switch
were seperate Ethenet device for your use. Still there might be a way
to do the switching you want with the device, but it is not set up
as 5 NIC cards and a radio network.

I hope this is helpful.

-Glenn

--- On Sat, 10/17/09, John Barrett <john.ae5et@...> wrote:

From: John Barrett <john.ae5et@...>
Subject: [ntms-hsmm] WRT54GL routing capability
To: ntms-hsmm@yahoogroups.com
Date: Saturday, October 17, 2009, 12:08 AM

Does anyone know if the WRT54GL is capable of handling each of the

ethernet ports as though it were a seperate interface ?? or do the 4

"internal" network ports appear as a single ethernet interface to the

firmware ??

I'm looking at a situation where I will need to route traffic from the

"public" side of the system to one of several devices that will be

handing backhaul communications, with the ability to switch all traffic

to a different backhaul link on demand based on the availability and

tested reliability of each backhaul link, or upon receipt of an

overriding command to switch to a specific link. I'm planning to have

all the link testing and switching built into the GL firmware if at all

possible so that once set it can operate without an external PC to

control the process.

From my limited experience with the linux firewall and linux routing,

it just seems like it will be easier if each backhaul device appears to

be on an independent network, but if that isnt possible, it can probably be made to work by switching the ip address of the default gateway as needed to address the specific backhaul device, given that the backhaul devices can be made to co-exist on the same subnet without issues.

Comments appreciated :)

John AE5ET Barrett

[Non-text portions of this message have been removed]

1626. Re: [ntms-hsmm] WRT54GL routing capability

Yahoo group: DAWG-HSMM
Date: 2009-10-17 06:01:22 UTC
From: John Barrett
Topic: 1624 Message: 1626

Thank you -- you just saved me going down an unprofitable route :)

I've got my GLs in hand and one hooked up to my home network to play with -- need to flash it with open-wrt and I can get started building a module to get what I want out of it -- use the uplink port as the interface to all the backhaul devices, and the switch ports to talk to the end users and the portal server. The module isnt going to be all that difficult to set up -- a config file with a list of backhaul devices and rules for testing the device, settings for how long a successful test series is required for the link to be considered reliable, and a priority setting just in case the module is configured to fall-up in case a higher priority link is re-established. Add on a web service interface so the portal computer can access the configuration and control the module, and it should be good to go :)

It's going to be interesting to see how it will all fit together trying to get an open-wrt mesh node, an ID-1, and a 4G wireless network to cooperate with each other :)

For those of you who have or are thinking about 4G wireless for mobile networking -- "Clear" is coming to the area starting Nov. 1. I'm going to be testing out one of their units next week and will report on its performance if anyone is interested. They have 4-8mbps downlink speeds and are offering a 2 for 1 unlimited account for $55/mo. Your choice of 2 mobile or home access nodes, or one of each. This isnt a trial discount -- no price hike ever :) I'm going to be getting 2 mobile nodes, just in case I figure out something to do with the 2nd one..... (hmmmm do we have internet at the water tower yet ??)

Glenn Currie wrote:
>
>
> The WAN port is one network device.
> The radio is one network device
> The 4 port LAN switch is one network device.
>
> It sounds like it would be a better fit if each of the 4 ports on the
> switch
> were seperate Ethenet device for your use. Still there might be a way
> to do the switching you want with the device, but it is not set up
> as 5 NIC cards and a radio network.
>
> I hope this is helpful.
>
> -Glenn
>

> --- On Sat, 10/17/09, John Barrett <john.ae5et@...
> <mailto:john.ae5et%40verizon.net>> wrote:
>
> From: John Barrett <john.ae5et@...
> <mailto:john.ae5et%40verizon.net>>
> Subject: [ntms-hsmm] WRT54GL routing capability
> To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> Date: Saturday, October 17, 2009, 12:08 AM
>
>
>
> Does anyone know if the WRT54GL is capable of handling each of the
>
> ethernet ports as though it were a seperate interface ?? or do the 4
>
> "internal" network ports appear as a single ethernet interface to the
>
> firmware ??
>
> I'm looking at a situation where I will need to route traffic from the
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> "public" side of the system to one of several devices that will be
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> handing backhaul communications, with the ability to switch all traffic
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> to a different backhaul link on demand based on the availability and
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> tested reliability of each backhaul link, or upon receipt of an
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> control the process.
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> it just seems like it will be easier if each backhaul device appears to
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> be made to work by switching the ip address of the default gateway as
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> needed to address the specific backhaul device, given that the backhaul
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> devices can be made to co-exist on the same subnet without issues.
>
> Comments appreciated :)

>
> John AE5ET Barrett
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> [Non-text portions of this message have been removed]
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1627. Re: [ntms-hsmm] WRT54GL routing capability

Yahoo group: DAWG-HSMM
Date: 2009-10-17 10:50:20 UTC
From: Kipton Moravec
Topic: 1624 Message: 1627

On Fri, 2009-10-16 at 22:41 -0700, Glenn Currie wrote:
> The WAN port is one network device.
> The radio is one network device
> The 4 port LAN switch is one network device.
>
> It sounds like it would be a better fit if each of the 4 ports on the switch
> were seperate Ethenet device for your use. Still there might be a way
> to do the switching you want with the device, but it is not set up
> as 5 NIC cards and a radio network.
>
> I hope this is helpful.
>
> -Glenn
>

Actually there are VLANs, which make the 4 port LAN switch appear as 4 different lans. I have been playing with 3 ports (1 2 3) set up as 172.27.0.1 and one port (4) as 172.28.0.1. The firewall config file has the IP table rules for routing.

Look at the /etc/config directory in the router. You can edit it with vi.

The documentation is not very good, but it should get you started.
http://kamikaze.openwrt.org/docs/openwrt.html#x1-120001.2.2

the documentation for dhcp file has an error.

```
option start 100
option end 200
```

does not work to give out addresses from say 172.27.0.100 to 172.27.0.200

it should be

```
option start 100
option limit 100
```

to give out addresses from say 172.27.0.100 to 172.27.0.200

If you get it wrong it defaults to option limit 150 which was driving me crazy.

Next problem is setting up the rules to do what you want. I do not have that working yet.

Happy hunting.

Kip

> --- On Sat, 10/17/09, John Barrett <john.ae5et@...> wrote:
>
> From: John Barrett <john.ae5et@...>
> Subject: [ntms-hsmm] WRT54GL routing capability
> To: ntms-hsmm@yahoogroups.com
> Date: Saturday, October 17, 2009, 12:08 AM
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> Does anyone know if the WRT54GL is capable of handling each of the
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> "internal" network ports appear as a single ethernet interface to the
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> I'm looking at a situation where I will need to route traffic from the
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> to a different backhaul link on demand based on the availability and
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> tested reliability of each backhaul link, or upon receipt of an
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> overriding command to switch to a specific link. I'm planning to have
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> all the link testing and switching built into the GL firmware if at all
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> possible so that once set it can operate without an external PC to
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> control the process.
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> >From my limited experience with the linux firewall and linux routing,

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> it just seems like it will be easier if each backhaul device appears to
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> be on an independent network, but if that isnt possible, it can probably
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> be made to work by switching the ip address of the default gateway as
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> needed to address the specific backhaul device, given that the backhaul
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> devices can be made to co-exist on the same subnet without issues.
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> Comments appreciated :)
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> John AE5ET Barrett
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> Yahoo! Groups Links
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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1628. Re: [ntms-hsmm] WRT54GL routing capability

Yahoo group: DAWG-HSMM
Date: 2009-10-17 11:24:31 UTC
From: Glenn Currie
Topic: 1624 Message: 1628

Excellent, looks like there is a way to accomplish what was desired.

-Glenn

--- On Sat, 10/17/09, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: Re: [ntms-hsmm] WRT54GL routing capability
To: ntms-hsmm@yahoogroups.com
Date: Saturday, October 17, 2009, 5:50 AM

On Fri, 2009-10-16 at 22:41 -0700, Glenn Currie wrote:

> The WAN port is one network device.

> The radio is one network device

> The 4 port LAN switch is one network device.

>

> It sounds like it would be a better fit if each of the 4 ports on the switch

> were seperate Ethenet device for your use. Still there might be a way

> to do the switching you want with the device, but it is not set up

> as 5 NIC cards and a radio network.

>

> I hope this is helpful.

>

> -Glenn

>

Actually there are VLANs, which make the 4 port LAN switch appear as 4

different lans. I have been playing with 3 ports (1 2 3) set up as

172.27.0.1 and one port (4) as 172.28.0.1. The firewall config file has

the IP table rules for routing.

Look at the /etc/config directory in the router. You can edit it with

vi.

The documentation is not very good, but it should get you started.

http://kamikaze. openwrt.org/ docs/openwrt. html#x1-120001. 2.2

the documentation for dhcp file has an error.

option start 100

option end 200

does not work to give out addresses from say 172.27.0.100 to

172.27.0.200

it should be

option start 100

option limit 100

to give out addresses from say 172.27.0.100 to 172.27.0.200

If you get it wrong it defaults to option limit 150 which was driving me

crazy.

Next problem is setting up the rules to do what you want. I do not have

that working yet.

Happy hunting.

Kip

> --- On Sat, 10/17/09, John Barrett <john.ae5et@verizon. net> wrote:

>

> From: John Barrett <john.ae5et@verizon. net>

> Subject: [ntms-hsmm] WRT54GL routing capability

> To: ntms-hsmm@yahoogrou ps.com

> Date: Saturday, October 17, 2009, 12:08 AM

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> Does anyone know if the WRT54GL is capable of handling each of the

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> ethernet ports as though it were a seperate interface ?? or do the 4

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> "internal" network ports appear as a single ethernet interface to the

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> firmware ??

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> I'm looking at a situation where I will need to route traffic from the

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> "public" side of the system to one of several devices that will be

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> handing backhaul communications, with the ability to switch all traffic

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> to a different backhaul link on demand based on the availability and

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> tested reliability of each backhaul link, or upon receipt of an

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> overriding command to switch to a specific link. I'm planning to have

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> all the link testing and switching built into the GL firmware if at all

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> possible so that once set it can operate without an external PC to

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> control the process.

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> >From my limited experience with the linux firewall and linux routing,

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> it just seems like it will be easier if each backhaul device appears to

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> be on an independent network, but if that isnt possible, it can probably

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> be made to work by switching the ip address of the default gateway as

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> needed to address the specific backhaul device, given that the backhaul

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> devices can be made to co-exist on the same subnet without issues.

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> Comments appreciated :)

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> John AE5ET Barrett

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> [Non-text portions of this message have been removed]

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> Yahoo! Groups Links

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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."

--Mark Twain

[Non-text portions of this message have been removed]

1629. Re: [ntms-hsmm] WRT54GL routing capability

Yahoo group: DAWG-HSMM
Date: 2009-10-17 13:42:25 UTC
From: John Barrett
Topic: 1624 Message: 1629

Will definitely have to check that out.. having separate networks makes it much easier to handle the connectivity testing since when I create the TCP socket that I'm going to use for the test, I can bind it to an address on the network of the device under test, and the OS handles the default gateway routing for that subnet automatically. Having all the devices to be tested on one subnet would have required the capability to forge the routing information for the test connection since the default route for the subnet would be pointing to the currently active backhaul device, which would not necessarily be the device under test. I believe I saw the PCAP module as part of the open-wrt module list, which would have given me the ability to forge the connection routing, but it would have taken a LOT more code to do it that way !!

At least I dont have to worry about DHCP on those subnets so the start/end/limit issues should not be a problem at all. The "public" side of the router can use the normal dhcp setup.

Setting up the firewall rules is going to be the real fun.. the control module is going to have to wipe and reload the firewall rules every time the decision is made to switch backhaul devices.

KIP !! You never sent me the information on where to get those 18db omni antennas !! Though I did find an interesting article on how to build one using coax if you'd like to save a LOT of money :) The design is simple enough to build if somewhat tedious, but you can add segments to get as much gain as you want.

http://wireless.gumph.org/articles/homemadeomni.html

Glenn Currie wrote:
>
>
> Excellent, looks like there is a way to accomplish what was desired.
>
> -Glenn
>
> --- On Sat, 10/17/09, Kipton Moravec <kip@...
> <mailto:kip%40kdream.com>> wrote:
>
> From: Kipton Moravec <kip@... <mailto:kip%40kdream.com>>
> Subject: Re: [ntms-hsmm] WRT54GL routing capability
> To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> Date: Saturday, October 17, 2009, 5:50 AM
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> On Fri, 2009-10-16 at 22:41 -0700, Glenn Currie wrote:
>
> > The WAN port is one network device.
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> > The radio is one network device
>
> > The 4 port LAN switch is one network device.
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> >
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> > It sounds like it would be a better fit if each of the 4 ports on
> the switch
>
> > were seperate Ethenet device for your use. Still there might be a way
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> > to do the switching you want with the device, but it is not set up
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> > as 5 NIC cards and a radio network.
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> > I hope this is helpful.
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> > -Glenn
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> Actually there are VLANs, which make the 4 port LAN switch appear as 4
>
> different lans. I have been playing with 3 ports (1 2 3) set up as
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> 172.27.0.1 and one port (4) as 172.28.0.1. The firewall config file has
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> the IP table rules for routing.
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> Look at the /etc/config directory in the router. You can edit it with
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> vi.
>
> The documentation is not very good, but it should get you started.
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> http://kamikaze. openwrt.org/ docs/openwrt. html#x1-120001. 2.2
>
> the documentation for dhcp file has an error.
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> option start 100
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> option end 200

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> does not work to give out addresses from say 172.27.0.100 to
>
> 172.27.0.200
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> it should be
>
> option start 100
>
> option limit 100
>
> to give out addresses from say 172.27.0.100 to 172.27.0.200
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> If you get it wrong it defaults to option limit 150 which was driving me
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> crazy.
>
> Next problem is setting up the rules to do what you want. I do not have
>
> that working yet.
>
> Happy hunting.
>
> Kip
>
> > --- On Sat, 10/17/09, John Barrett <john.ae5et@verizon. net> wrote:
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> > From: John Barrett <john.ae5et@verizon. net>
>
> > Subject: [ntms-hsmm] WRT54GL routing capability
>
> > To: ntms-hsmm@yahoogrou ps.com
>
> > Date: Saturday, October 17, 2009, 12:08 AM
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> > Does anyone know if the WRT54GL is capable of handling each of the
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> > "internal" network ports appear as a single ethernet interface to the
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> > I'm looking at a situation where I will need to route traffic from the
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> > "public" side of the system to one of several devices that will be
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> > handing backhaul communications, with the ability to switch all traffic
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> > to a different backhaul link on demand based on the availability and
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> > tested reliability of each backhaul link, or upon receipt of an
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> > overriding command to switch to a specific link. I'm planning to have
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> > all the link testing and switching built into the GL firmware if at all
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> > possible so that once set it can operate without an external PC to
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> > >From my limited experience with the linux firewall and linux routing,
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> > it just seems like it will be easier if each backhaul device appears to
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> > be on an independent network, but if that isnt possible, it can probably
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> > be made to work by switching the ip address of the default gateway as
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> > needed to address the specific backhaul device, given that the backhaul
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> > devices can be made to co-exist on the same subnet without issues.
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> > Comments appreciated :)

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> > John AE5ET Barrett
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> Kipton Moravec AE5IB .- . ... -...
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> "Always do right; this will gratify some people and astonish the rest."
>
> --Mark Twain

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> [Non-text portions of this message have been removed]
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1630. Re: [ntms-hsmm] WRT54GL routing capability

Yahoo group: DAWG-HSMM
Date: 2009-10-18 01:41:57 UTC
From: Glenn Currie
Topic: 1624 Message: 1630

Please check with Kip on his current work. Although the 4 port switch is one device, he has figured out a way to use some sort of virtual mapping to get at each port.

I have not examined his code, but I know he is trying to provide special services on a a particular jack on the 4 port switch. So if you can pick up on how he is able to reliably map the 4 ports in the switch, you can probably do what you originally proposed to do.

-Glenn

--- On Sat, 10/17/09, John Barrett <john.ae5et@...> wrote:

From: John Barrett <john.ae5et@...>
Subject: Re: [ntms-hsmm] WRT54GL routing capability
To: ntms-hsmm@yahoogroups.com
Date: Saturday, October 17, 2009, 1:01 AM

Thank you -- you just saved me going down an unprofitable route :)

I've got my GLs in hand and one hooked up to my home network to play

with -- need to flash it with open-wrt and I can get started building a

module to get what I want out of it -- use the uplink port as the

interface to all the backhaul devices, and the switch ports to talk to

the end users and the portal server. The module isnt going to be all

that difficult to set up -- a config file with a list of backhaul

devices and rules for testing the device, settings for how long a

successful test series is required for the link to be considered

reliable, and a priority setting just in case the module is configured

to fall-up in case a higher priority link is re-established. Add on a

web service interface so the portal computer can access the

configuration and control the module, and it should be good to go :)

It's going to be interesting to see how it will all fit together trying

to get an open-wrt mesh node, an ID-1, and a 4G wireless network to

cooperate with each other :)

For those of you who have or are thinking about 4G wireless for mobile

networking -- "Clear" is coming to the area starting Nov. 1. I'm going to be testing out one of their units next week and will report on its performance if anyone is interested. They have 4-8mbps downlink speeds and are offering a 2 for 1 unlimited account for $55/mo. Your choice of 2 mobile or home access nodes, or one of each. This isnt a trial discount -- no price hike ever :) I'm going to be getting 2 mobile nodes, just in case I figure out something to do with the 2nd one.....

(hmmmm do we have internet at the water tower yet ??)

Glenn Currie wrote:

>

>

> The WAN port is one network device.

> The radio is one network device

> The 4 port LAN switch is one network device.

>

> It sounds like it would be a better fit if each of the 4 ports on the

> switch

> were seperate Ethenet device for your use. Still there might be a way

> to do the switching you want with the device, but it is not set up

> as 5 NIC cards and a radio network.

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> I hope this is helpful.

>

> -Glenn

>

> --- On Sat, 10/17/09, John Barrett <john.ae5et@verizon. net

> <mailto:john. ae5et%40verizon. net>> wrote:

>

> From: John Barrett <john.ae5et@verizon. net

> <mailto:john. ae5et%40verizon. net>>

> Subject: [ntms-hsmm] WRT54GL routing capability

> To: ntms-hsmm@yahoogrou ps.com <mailto:ntms- hsmm%40yahoogrou ps.com>

> Date: Saturday, October 17, 2009, 12:08 AM

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> Does anyone know if the WRT54GL is capable of handling each of the

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> ethernet ports as though it were a seperate interface ?? or do the 4

>

> "internal" network ports appear as a single ethernet interface to the

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> I'm looking at a situation where I will need to route traffic from the

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> "public" side of the system to one of several devices that will be

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> handing backhaul communications, with the ability to switch all traffic

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> to a different backhaul link on demand based on the availability and

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> all the link testing and switching built into the GL firmware if at all

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> possible so that once set it can operate without an external PC to

>

> control the process.

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> >From my limited experience with the linux firewall and linux routing,

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> it just seems like it will be easier if each backhaul device appears to

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> be on an independent network, but if that isnt possible, it can probably

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> be made to work by switching the ip address of the default gateway as

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> needed to address the specific backhaul device, given that the backhaul

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> devices can be made to co-exist on the same subnet without issues.

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> Comments appreciated :)

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> John AE5ET Barrett

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> [Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

1631. Re: [ntms-hsmm] OT? Re: Wearable device turns troops into walking mesh nodes, extending network range

Yahoo group: DAWG-HSMM
Date: 2009-10-18 07:12:59 UTC
From: kevin asato
Topic: 1622 Message: 1631

From a tactical standpoint, being able to triangulate on WiFi packets would not be a good idea. I would probably still aim for the largest antennas around as these are the relay sites for the mesh networks. From a command and control perspective, this has a larger impact as there are other forms of communications passing through the relay as well. (Learned about that listening to radio ops who were in Nam that you never operated your radio next to your antenna as that was where the first mortar rounds went!) The problem being that to triangulate WiFi at the origin, you have to be pretty darn close to the signal. The again triangulating bursts, you could end up aiming at a local at an internet cafe without the ability to gain intelligence from the carrier burst.

From looking at it from a Stateside perspective -

1) wearing a mesh capable device allows one to be in communications with the rest of your group. This makes it easy to know where one is at any one time without resorting to a manual roll call. All the positional information can be collected and display in a form similar to APRS. Also makes it easier to relay on-scene information (an video) to a local command post for situational awareness.

2) in the training scenario mentioned at Fort Irwin (NTC) outside of Barstow, CA, having all the troops "instrumented" makes it possible to record and evaluate friendly and enemy movements and actions for After Action Review. This has already been done on previous training programs such as MILES and AGES which had used other frequencies before. The short range of WiFi allows for intelligent spectrum management both in terms of frequency reuse and a more heirarchical communications system similar to your more intelligent (border gateway?) routing protocols. (The last part is pure speculation on my part but I have knowledge of MILES and AGES from prior job experience).

73,
kevin
kc6pob

--- On Fri, 10/16/09, BILL <bill@findmarian-bill.info> wrote:

From: BILL <bill@...>
Subject: [ntms-hsmm] Re: Wearable device turns troops into walking mesh nodes, extending network range
To: ntms-hsmm@yahoogroups.com
Date: Friday, October 16, 2009, 9:22 PM

Seems to me that it would be easy to trianglate their signals and nail the troops to the ground since you know where they are. is they are using 802 11g, it chirps all the time. No hard to figure out where the chirps are coming from and how fast they are moving. No encryptization will keep you from just listening to the channel and triangulate their position, do not have to break the crypto.

Bill Wallace

.

[Non-text portions of this message have been removed]

1632. OT? Re: Wearable device turns troops into walking mesh nodes, extending network range

Yahoo group: DAWG-HSMM
Date: 2009-10-18 13:43:04 UTC
From: BILL
Topic: 1622 Message: 1632

Thanks Kevin.
Bill Wallace

1633. Re: [ntms-hsmm] OT? Re: Wearable device turns troops into walking mesh nodes, extending network range

Yahoo group: DAWG-HSMM
Date: 2009-10-18 22:27:49 UTC
From: Robert Ellis
Topic: 1622 Message: 1633

On Oct 18, 2009, at 2:12 AM, kevin asato wrote:

> From a tactical standpoint, being able to triangulate on WiFi
> packets would not be a good idea. ... The problem being that to
> triangulate WiFi at the origin, you have to be pretty darn close to
> the signal.

I think as time passes, some phased arrays will be more available on
the market. Here's one example:
http://www.fidelity-comtech.com/PDFs/DS%20Phocus%203100x%20v2.1%20v4%20Final.pdf
These determine the direction from which a signal is coming in order
to more efficiently communicate with that signal. (So, I don't think
you need to be close to the signal in order to triangulate.)

The military seems to be moving to software defined radios. I'd bet
that they are able to change the frequencies more readily than what
you might find on a linksys router, and so could more easily avoid
attempts to triangulate positions.

> 73,
> kevin
> kc6pob

robert

1634. Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-19 03:20:36 UTC
From: John Barrett
Topic: 1634 Message: 1634

I've got my wrt54gl with OpenWRT sitting here, and I'm getting positively slammed for time the last few days -- can someone drop their mesh config on me so I can get up and running -- or at least a link to a current how-to -- the ones I have found so far seem to be out of date.

1635. Re: [ntms-hsmm] Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-19 04:00:42 UTC
From: Kipton Moravec
Topic: 1634 Message: 1635

The default one should work.

Just change the SSID to HSMM-MESH from APRS-MESH. The rest should be the default.

Kip

On Sun, 2009-10-18 at 22:20 -0500, John Barrett wrote:
> I've got my wrt54gl with OpenWRT sitting here, and I'm getting
> positively slammed for time the last few days -- can someone drop their
> mesh config on me so I can get up and running -- or at least a link to a
> current how-to -- the ones I have found so far seem to be out of date.
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> Yahoo! Groups Links
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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1636. Re: [ntms-hsmm] Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-19 04:27:18 UTC
From: John Barrett
Topic: 1634 Message: 1636

The default one what ?? there isnt much that is set right in the vanilla OpenWRT Kamikaze 8.0.9 that I have installed according to the sites I'm looking at -- are you guys running the freifunk firmware that has all that stuff as defaults (just found out about that in the last hour or so)

I'm on the repeater if you can take a minute to run me through this.

Kipton Moravec wrote:
>
>
> The default one should work.
>
> Just change the SSID to HSMM-MESH from APRS-MESH. The rest should be the
> default.
>
> Kip
>
> On Sun, 2009-10-18 at 22:20 -0500, John Barrett wrote:
> > I've got my wrt54gl with OpenWRT sitting here, and I'm getting
> > positively slammed for time the last few days -- can someone drop their
> > mesh config on me so I can get up and running -- or at least a link
> to a
> > current how-to -- the ones I have found so far seem to be out of date.
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> Kipton Moravec AE5IB .- . ... -...
>
> "Always do right; this will gratify some people and astonish the rest."
> --Mark Twain
>
>

1637. Re: [ntms-hsmm] Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-19 04:28:40 UTC
From: Glenn Currie
Topic: 1634 Message: 1637

Yes, the default values work fine for me. I have a lot of nodes
and have not updated them all yet so I had to set the SSID on the
setup page to ARES-MESH the old SSID until I get all my nodes
updated. That seems to work find. I hope it solves your problem.

-Glenn

--- On Sun, 10/18/09, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: Re: [ntms-hsmm] Mesh Config
To: ntms-hsmm@yahoogroups.com
Date: Sunday, October 18, 2009, 11:00 PM

The default one should work.

Just change the SSID to HSMM-MESH from APRS-MESH. The rest should be the

default.

Kip

On Sun, 2009-10-18 at 22:20 -0500, John Barrett wrote:

> I've got my wrt54gl with OpenWRT sitting here, and I'm getting

> positively slammed for time the last few days -- can someone drop their

> mesh config on me so I can get up and running -- or at least a link to a

> current how-to -- the ones I have found so far seem to be out of date.

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> Yahoo! Groups Links

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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."

--Mark Twain

[Non-text portions of this message have been removed]

1638. Re: [ntms-hsmm] Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-19 04:30:57 UTC
From: Glenn Currie
Topic: 1634 Message: 1638

Hope you get some local help. I was out of context and
thought your were upgrading a mesh farm like I am and
ran into the SSID change.

-Glenn

--- On Sun, 10/18/09, John Barrett <john.ae5et@...> wrote:

From: John Barrett <john.ae5et@...>
Subject: Re: [ntms-hsmm] Mesh Config
To: ntms-hsmm@yahoogroups.com
Date: Sunday, October 18, 2009, 11:27 PM

The default one what ?? there isnt much that is set right in the vanilla

OpenWRT Kamikaze 8.0.9 that I have installed according to the sites I'm

looking at -- are you guys running the freifunk firmware that has all

that stuff as defaults (just found out about that in the last hour or so)

I'm on the repeater if you can take a minute to run me through this.

Kipton Moravec wrote:

>

>

> The default one should work.

>

> Just change the SSID to HSMM-MESH from APRS-MESH. The rest should be the

> default.

>

> Kip

>

> On Sun, 2009-10-18 at 22:20 -0500, John Barrett wrote:

> > I've got my wrt54gl with OpenWRT sitting here, and I'm getting

> > positively slammed for time the last few days -- can someone drop their

> > mesh config on me so I can get up and running -- or at least a link

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> > Yahoo! Groups Links

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> Kipton Moravec AE5IB .- . ... -...

>

> "Always do right; this will gratify some people and astonish the rest."

> --Mark Twain

>

>

[Non-text portions of this message have been removed]

1639. Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-19 04:46:49 UTC
From: BILL
Topic: 1634 Message: 1639

John, Let me see if I can help. My name is Bill Wallace, and I am the one developing a new web site for the HSMM-MESH(R) project for users like you.

First I need some information

What software did you load on your WRT54g?

Where (web page name, etc) did you get this software?

I will be sitting here waiting for your reply, so let me hear from you ASAP

Bill Wallace

1640. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-19 05:10:47 UTC
From: John Barrett
Topic: 1634 Message: 1640

http://kamikaze.openwrt.org/8.09/brcm-2.4/openwrt-wrt54g-squashfs.bin
Installed on a GL, with olsrd-luci and olsrd-luci-mod-txtinfo info installed

MSN Ascendion@...
AOL ae5et

if you'd like to take this to IM

BILL wrote:
>
>
>
> John, Let me see if I can help. My name is Bill Wallace, and I am the
> one developing a new web site for the HSMM-MESH(R) project for users
> like you.
>
> First I need some information
>
> What software did you load on your WRT54g?
>
> Where (web page name, etc) did you get this software?
>
> I will be sitting here waiting for your reply, so let me hear from you
> ASAP
>
> Bill Wallace
>
>

1641. RE: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-19 05:25:28 UTC
From: WILLIAM WALLACE
Topic: 1634 Message: 1641

Sorry John I did not see you second e-mail until I had finished answering your first one..

So you have the OLSR software installed on top of OpenWRT. Ok you are further along than I gathered from your first message.

I am going to attach a user's manual from a group in South Africa that steps people through their system quite nicely and hopefully it will help you get your system up. They use the software that the German net uses.

Take a look at it.

Bill Wallace KC0TGY

[Non-text portions of this message have been removed]

1642. RE: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-19 11:45:45 UTC
From: Kipton Moravec
Topic: 1634 Message: 1642

I see the problem. He is doing it from scratch and not using the Austin Version.

Kip

On Mon, 2009-10-19 at 00:25 -0500, WILLIAM WALLACE wrote:
> Sorry John I did not see you second e-mail until I had finished answering
> your first one..
>
> So you have the OLSR software installed on top of OpenWRT. Ok you are
> further along than I gathered from your first message.
>
> I am going to attach a user's manual from a group in South Africa that steps
> people through their system quite nicely and hopefully it will help you get
> your system up. They use the software that the German net uses.
>
> Take a look at it.
>
> Bill Wallace KC0TGY
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1643. Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-19 14:43:19 UTC
From: BILL
Topic: 1634 Message: 1643

Kip Yes It was obvious that he said he was using OpenWRT in his first message. I worked with him via Webex until about 12:30 and he is trying to do a lot more than I know about.

--- In ntms-hsmm@yahoogroups.com, Kipton Moravec <kip@...> wrote:
>
> I see the problem. He is doing it from scratch and not using the Austin
> Version.
>
> Kip
>
> On Mon, 2009-10-19 at 00:25 -0500, WILLIAM WALLACE wrote:
> > Sorry John I did not see you second e-mail until I had finished answering
> > your first one..
> >
> > So you have the OLSR software installed on top of OpenWRT. Ok you are
> > further along than I gathered from your first message.
> >
> > I am going to attach a user's manual from a group in South Africa that steps
> > people through their system quite nicely and hopefully it will help you get
> > your system up. They use the software that the German net uses.
> >
> > Take a look at it.
> >
> > Bill Wallace KC0TGY
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> > Yahoo! Groups Links
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> Kipton Moravec AE5IB .- . ... -...
>
> "Always do right; this will gratify some people and astonish the rest."
> --Mark Twain
>

1644. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-20 02:06:33 UTC
From: John Barrett
Topic: 1634 Message: 1644

Well -- I have my 1st node apparently working as of last night after I spoke to Will/Bill :) All the status screens are accessible without error and the daemon is running as expected.

I've written up a instruction set for configuring 8.0.9 Kamikaze, and I will be configuring a second router tonight. Once I have the 2nd node configured, connectivity between the 2 routers confirmed, and interop with the HSMM-MESH network confirmed, I will make the instructions available to anyone interested.

BILL wrote:
>
>
> Kip Yes It was obvious that he said he was using OpenWRT in his first
> message. I worked with him via Webex until about 12:30 and he is
> trying to do a lot more than I know about.
>
> --- In ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>,
> Kipton Moravec <kip@...> wrote:
> >
> > I see the problem. He is doing it from scratch and not using the Austin
> > Version.
> >
> > Kip
> >
> > On Mon, 2009-10-19 at 00:25 -0500, WILLIAM WALLACE wrote:
> > > Sorry John I did not see you second e-mail until I had finished
> answering
> > > your first one..
> > >
> > > So you have the OLSR software installed on top of OpenWRT. Ok you are
> > > further along than I gathered from your first message.
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> > > I am going to attach a user's manual from a group in South Africa
> that steps
> > > people through their system quite nicely and hopefully it will
> help you get
> > > your system up. They use the software that the German net uses.
> > >
> > > Take a look at it.
> > >
> > > Bill Wallace KC0TGY
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> > > Yahoo! Groups Links
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> > --
> > Kipton Moravec AE5IB .- . ... -...
> >
> > "Always do right; this will gratify some people and astonish the rest."
> > --Mark Twain
> >
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1645. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-20 02:21:45 UTC
From: John Barrett
Topic: 1634 Message: 1645

Well -- I have my 1st node apparently working as of last night after I spoke to Will/Bill :) All the status screens are accessible without error and the daemon is running as expected.

I've written up a instruction set for configuring 8.0.9 Kamikaze, and I will be configuring a second router tonight. Once I have the 2nd node configured, connectivity between the 2 routers confirmed, and interop with the HSMM-MESH network confirmed, I will make the instructions available to anyone interested.

BILL wrote:
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>
> Kip Yes It was obvious that he said he was using OpenWRT in his first
> message. I worked with him via Webex until about 12:30 and he is
> trying to do a lot more than I know about.
>
> --- In ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>,
> Kipton Moravec <kip@...> wrote:
> >
> > I see the problem. He is doing it from scratch and not using the Austin
> > Version.
> >
> > Kip
> >
> > On Mon, 2009-10-19 at 00:25 -0500, WILLIAM WALLACE wrote:
> > > Sorry John I did not see you second e-mail until I had finished
> answering
> > > your first one..
> > >
> > > So you have the OLSR software installed on top of OpenWRT. Ok you are
> > > further along than I gathered from your first message.
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> > > I am going to attach a user's manual from a group in South Africa
> that steps
> > > people through their system quite nicely and hopefully it will
> help you get
> > > your system up. They use the software that the German net uses.
> > >
> > > Take a look at it.
> > >
> > > Bill Wallace KC0TGY
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> > Kipton Moravec AE5IB .- . ... -...
> >
> > "Always do right; this will gratify some people and astonish the rest."
> > --Mark Twain
> >
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1646. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-20 02:47:54 UTC
From: Glenn Currie
Topic: 1634 Message: 1646

Good work. Keep us posted.

-Glenn

--- On Mon, 10/19/09, John Barrett <john.ae5et@...> wrote:

From: John Barrett <john.ae5et@...>
Subject: Re: [ntms-hsmm] Re: Mesh Config
To: ntms-hsmm@yahoogroups.com
Date: Monday, October 19, 2009, 9:06 PM

Well -- I have my 1st node apparently working as of last night after I

spoke to Will/Bill :) All the status screens are accessible without

error and the daemon is running as expected.

I've written up a instruction set for configuring 8.0.9 Kamikaze, and I

will be configuring a second router tonight. Once I have the 2nd node

configured, connectivity between the 2 routers confirmed, and interop

with the HSMM-MESH network confirmed, I will make the instructions

available to anyone interested.

BILL wrote:

>

>

> Kip Yes It was obvious that he said he was using OpenWRT in his first

> message. I worked with him via Webex until about 12:30 and he is

> trying to do a lot more than I know about.

>

> --- In ntms-hsmm@yahoogrou ps.com <mailto:ntms- hsmm%40yahoogrou ps.com>,

> Kipton Moravec <kip@...> wrote:

> >

> > I see the problem. He is doing it from scratch and not using the Austin

> > Version.

> >

> > Kip

> >

> > On Mon, 2009-10-19 at 00:25 -0500, WILLIAM WALLACE wrote:

> > > Sorry John I did not see you second e-mail until I had finished

> answering

> > > your first one..

> > >

> > > So you have the OLSR software installed on top of OpenWRT. Ok you are

> > > further along than I gathered from your first message.

> > >

> > > I am going to attach a user's manual from a group in South Africa

> that steps

> > > people through their system quite nicely and hopefully it will

> help you get

> > > your system up. They use the software that the German net uses.

> > >

> > > Take a look at it.

> > >

> > > Bill Wallace KC0TGY

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> > Kipton Moravec AE5IB .- . ... -...

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> > "Always do right; this will gratify some people and astonish the rest."

> > --Mark Twain

> >

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[Non-text portions of this message have been removed]

1647. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-20 04:04:57 UTC
From: John Barrett
Topic: 1634 Message: 1647

OK -- I've got my 2 nodes talking to each other enough to see them both in the OLSRD routing tables, and since one has a gateway to the internet, I'm getting the HNA4 alert on the other router

One thing I read in an article I found with a google search was something about using something other than the 192.168 address space for the "client" connections (I think something in the 172 range was mentioned) in order to provide static routing throughout the mesh even as the router handling a given node changes its associations with mesh peers ??

Can someone explain about that or hit me with a link that might explain a little more ??

Glenn Currie wrote:
>
>
> Good work. Keep us posted.
>
> -Glenn
>
> --- On Mon, 10/19/09, John Barrett <john.ae5et@...
> <mailto:john.ae5et%40verizon.net>> wrote:
>
> From: John Barrett <john.ae5et@...
> <mailto:john.ae5et%40verizon.net>>
> Subject: Re: [ntms-hsmm] Re: Mesh Config
> To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> Date: Monday, October 19, 2009, 9:06 PM
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>
>
> Well -- I have my 1st node apparently working as of last night after I
>
> spoke to Will/Bill :) All the status screens are accessible without
>
> error and the daemon is running as expected.
>
> I've written up a instruction set for configuring 8.0.9 Kamikaze, and I
>
> will be configuring a second router tonight. Once I have the 2nd node
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> configured, connectivity between the 2 routers confirmed, and interop
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> with the HSMM-MESH network confirmed, I will make the instructions
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> available to anyone interested.
>
> BILL wrote:
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> > Kip Yes It was obvious that he said he was using OpenWRT in his first
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> > message. I worked with him via Webex until about 12:30 and he is
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> > trying to do a lot more than I know about.
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> > --- In ntms-hsmm@yahoogrou ps.com <mailto:ntms- hsmm%40yahoogrou
> ps.com>,
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> > Kipton Moravec <kip@...> wrote:
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> > >
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> > > I see the problem. He is doing it from scratch and not using the
> Austin
>
> > > Version.
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> > > Kip
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> > > On Mon, 2009-10-19 at 00:25 -0500, WILLIAM WALLACE wrote:
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> > > > Sorry John I did not see you second e-mail until I had finished
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> > answering
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> > > > your first one..
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> > > > So you have the OLSR software installed on top of OpenWRT. Ok
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> > > > further along than I gathered from your first message.
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> > > > I am going to attach a user's manual from a group in South Africa
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> > that steps
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> > > > people through their system quite nicely and hopefully it will
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> > help you get
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> > > > your system up. They use the software that the German net uses.
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> > > > Take a look at it.
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> > > > Bill Wallace KC0TGY
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> > > Kipton Moravec AE5IB .- . ... -...
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> > > "Always do right; this will gratify some people and astonish the
> rest."
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> > > --Mark Twain
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1648. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-20 04:25:07 UTC
From: John Barrett
Topic: 1634 Message: 1648

OK -- forget I asked :) I didn't know that 172 was an unrouted address space. So I presume each mesh node gets a class C block of addresses in the 172.16-31 range ?? allowing 4096 nodes per mesh without a lot of assignment issues, and 250+ clients per node, all statically addressable from anywhere in the mesh ??

Guess I need to ask Kip for an assignment :)

John Barrett wrote:
>
>
> OK -- I've got my 2 nodes talking to each other enough to see them both
> in the OLSRD routing tables, and since one has a gateway to the
> internet, I'm getting the HNA4 alert on the other router
>
> One thing I read in an article I found with a google search was
> something about using something other than the 192.168 address space for
> the "client" connections (I think something in the 172 range was
> mentioned) in order to provide static routing throughout the mesh even
> as the router handling a given node changes its associations with mesh
> peers ??
>
> Can someone explain about that or hit me with a link that might explain
> a little more ??
>
> Glenn Currie wrote:
> >
> >
> > Good work. Keep us posted.
> >
> > -Glenn
> >
> > --- On Mon, 10/19/09, John Barrett <john.ae5et@...
> <mailto:john.ae5et%40verizon.net>
> > <mailto:john.ae5et%40verizon.net>> wrote:
> >
> > From: John Barrett <john.ae5et@...
> <mailto:john.ae5et%40verizon.net>
> > <mailto:john.ae5et%40verizon.net>>
> > Subject: Re: [ntms-hsmm] Re: Mesh Config
> > To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> <mailto:ntms-hsmm%40yahoogroups.com>
> > Date: Monday, October 19, 2009, 9:06 PM
> >
> >

> >
> > Well -- I have my 1st node apparently working as of last night after I
> >
> > spoke to Will/Bill :) All the status screens are accessible without
> >
> > error and the daemon is running as expected.
> >
> > I've written up a instruction set for configuring 8.0.9 Kamikaze, and I
> >
> > will be configuring a second router tonight. Once I have the 2nd node
> >
> > configured, connectivity between the 2 routers confirmed, and interop
> >
> > with the HSMM-MESH network confirmed, I will make the instructions
> >
> > available to anyone interested.
> >
> > BILL wrote:
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> >
> > > Kip Yes It was obvious that he said he was using OpenWRT in his first
> >
> > > message. I worked with him via Webex until about 12:30 and he is
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> > > trying to do a lot more than I know about.
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> > > --- In ntms-hsmm@yahoogrou ps.com <mailto:ntms- hsmm%40yahoogrou
> > ps.com>,
> >
> > > Kipton Moravec <kip@...> wrote:
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> > > > I see the problem. He is doing it from scratch and not using the
> > Austin
> >
> > > > Version.
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> > > > Kip
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> > > > On Mon, 2009-10-19 at 00:25 -0500, WILLIAM WALLACE wrote:

> >
> > > > > Sorry John I did not see you second e-mail until I had finished
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> > > answering
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> > > > > your first one..
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> > > > > So you have the OLSR software installed on top of OpenWRT. Ok
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> > > > > I am going to attach a user's manual from a group in South Africa
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> > > > > people through their system quite nicely and hopefully it will
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> > > help you get
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> > > > > your system up. They use the software that the German net uses.
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> > > > > Take a look at it.
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> > > > > Bill Wallace KC0TGY
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> > > > Kipton Moravec AE5IB .- . ... -...
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> > > > "Always do right; this will gratify some people and astonish the
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> > > > --Mark Twain
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1649. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-20 12:05:30 UTC
From: Kipton Moravec
Topic: 1634 Message: 1649

The current system uses a random 10.xx.xx.xx based on the MAC address
for the wireless side.

The WAN port is setup to get a DHCP address, and route anything that is
not 10.xx.xx.xx if it is hooked up.

The LAN ports are to 172.27.0.1 and do NAT and the DHCP gives out 100 to
250 addresses but because it is NAT it could give out anything.

What I did was make one of the lan ports (4) 172.28.0.1 and give out
just 1 address 172.28.0.2, then passed all incoming ports not used by
the router to the PC like a dmz.

You need to join the Austin_HSMM_Development@yahoogroups.com group.
People with more details reside there.

Kip

On Mon, 2009-10-19 at 23:25 -0500, John Barrett wrote:
> OK -- forget I asked :) I didn't know that 172 was an unrouted address
> space. So I presume each mesh node gets a class C block of addresses in
> the 172.16-31 range ?? allowing 4096 nodes per mesh without a lot of
> assignment issues, and 250+ clients per node, all statically addressable
> from anywhere in the mesh ??
>
> Guess I need to ask Kip for an assignment :)
>
> John Barrett wrote:
> >
> >
> > OK -- I've got my 2 nodes talking to each other enough to see them both
> > in the OLSRD routing tables, and since one has a gateway to the
> > internet, I'm getting the HNA4 alert on the other router
> >
> > One thing I read in an article I found with a google search was
> > something about using something other than the 192.168 address space for
> > the "client" connections (I think something in the 172 range was
> > mentioned) in order to provide static routing throughout the mesh even
> > as the router handling a given node changes its associations with mesh
> > peers ??
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> > Can someone explain about that or hit me with a link that might explain
> > a little more ??
> >
> > Glenn Currie wrote:
> > >

> > >
> > > Good work. Keep us posted.
> > >
> > > -Glenn
> > >
> > > --- On Mon, 10/19/09, John Barrett <john.ae5et@...
> > <mailto:john.ae5et%40verizon.net>
> > > <mailto:john.ae5et%40verizon.net>> wrote:
> > >
> > > From: John Barrett <john.ae5et@...
> > <mailto:john.ae5et%40verizon.net>
> > > <mailto:john.ae5et%40verizon.net>>
> > > Subject: Re: [ntms-hsmm] Re: Mesh Config
> > > To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> > <mailto:ntms-hsmm%40yahoogroups.com>
> > > Date: Monday, October 19, 2009, 9:06 PM
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> > > Well -- I have my 1st node apparently working as of last night after I
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> > > spoke to Will/Bill :) All the status screens are accessible without
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> > > error and the daemon is running as expected.
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> > > I've written up a instruction set for configuring 8.0.9 Kamikaze, and I
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> > > will be configuring a second router tonight. Once I have the 2nd node
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> > > configured, connectivity between the 2 routers confirmed, and interop
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> > > with the HSMM-MESH network confirmed, I will make the instructions
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> > > available to anyone interested.
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> > > BILL wrote:
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> > > > Kip Yes It was obvious that he said he was using OpenWRT in his first
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> > > > message. I worked with him via Webex until about 12:30 and he is
> > >
> > > > trying to do a lot more than I know about.
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> > > > --- In ntms-hsmm@yahoogrou ps.com <mailto:ntms- hsmm%40yahoogrou

> > > ps.com>,
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> > > > Kipton Moravec <kip@...> wrote:
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> > > > > I see the problem. He is doing it from scratch and not using the
> > > Austin
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> > > > > Version.
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> > > > > Kip
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> > >
> > > > > On Mon, 2009-10-19 at 00:25 -0500, WILLIAM WALLACE wrote:
> > >
> > > > > > Sorry John I did not see you second e-mail until I had finished
> > >
> > > > answering
> > >
> > > > > > your first one..
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> > > > > > So you have the OLSR software installed on top of OpenWRT. Ok
> > > you are
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> > > > > > further along than I gathered from your first message.
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> > > > > > I am going to attach a user's manual from a group in South Africa
> > >
> > > > that steps
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> > > > > > people through their system quite nicely and hopefully it will
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> > > > help you get
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> > > > > > your system up. They use the software that the German net uses.
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> > > > > > Take a look at it.
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> > > > > > Bill Wallace KC0TGY
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> > > > > Kipton Moravec AE5IB .- . ... -...
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> > > > > "Always do right; this will gratify some people and astonish the
> > > rest."
> > >
> > > > > --Mark Twain
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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1650. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-20 14:34:08 UTC
From: Glenn Currie
Topic: 1634 Message: 1650

John,

I've sent you some information on the development group that should be helpful with HSMM-MESH. We need more developers and would welcome your help.

-Glenn

--- On Tue, 10/20/09, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: Re: [ntms-hsmm] Re: Mesh Config
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, October 20, 2009, 7:05 AM

The current system uses a random 10.xx.xx.xx based on the MAC address

for the wireless side.

The WAN port is setup to get a DHCP address, and route anything that is

not 10.xx.xx.xx if it is hooked up.

The LAN ports are to 172.27.0.1 and do NAT and the DHCP gives out 100 to

250 addresses but because it is NAT it could give out anything.

What I did was make one of the lan ports (4) 172.28.0.1 and give out

just 1 address 172.28.0.2, then passed all incoming ports not used by

the router to the PC like a dmz.

You need to join the Austin_HSMM_ Development@ yahoogroups. com group.

People with more details reside there.

Kip

On Mon, 2009-10-19 at 23:25 -0500, John Barrett wrote:

> OK -- forget I asked :) I didn't know that 172 was an unrouted address

> space. So I presume each mesh node gets a class C block of addresses in

> the 172.16-31 range ?? allowing 4096 nodes per mesh without a lot of

> assignment issues, and 250+ clients per node, all statically addressable

> from anywhere in the mesh ??

>

> Guess I need to ask Kip for an assignment :)

>

> John Barrett wrote:

> >

> >

> > OK -- I've got my 2 nodes talking to each other enough to see them both

> > in the OLSRD routing tables, and since one has a gateway to the

> > internet, I'm getting the HNA4 alert on the other router

> >

> > One thing I read in an article I found with a google search was

> > something about using something other than the 192.168 address space for

> > the "client" connections (I think something in the 172 range was

> > mentioned) in order to provide static routing throughout the mesh even

> > as the router handling a given node changes its associations with mesh

> > peers ??

> >

> > Can someone explain about that or hit me with a link that might explain

> > a little more ??

> >

> > Glenn Currie wrote:

> > >

> > >

> > > Good work. Keep us posted.

> > >

> > > -Glenn

> > >

> > > --- On Mon, 10/19/09, John Barrett <john.ae5et@verizon. net

> > <mailto:john. ae5et%40verizon. net>

> > > <mailto:john. ae5et%40verizon. net>> wrote:

> > >

> > > From: John Barrett <john.ae5et@verizon. net

> > <mailto:john. ae5et%40verizon. net>

> > > <mailto:john. ae5et%40verizon. net>>

> > > Subject: Re: [ntms-hsmm] Re: Mesh Config

> > > To: ntms-hsmm@yahoogrou ps.com <mailto:ntms- hsmm%40yahoogrou ps.com>

> > <mailto:ntms- hsmm%40yahoogrou ps.com>

> > > Date: Monday, October 19, 2009, 9:06 PM

> > >

> > >

> > >

> > > Well -- I have my 1st node apparently working as of last night after I

> > >

> > > spoke to Will/Bill :) All the status screens are accessible without

> > >

> > > error and the daemon is running as expected.

> > >

> > > I've written up a instruction set for configuring 8.0.9 Kamikaze, and I

> > >

> > > will be configuring a second router tonight. Once I have the 2nd node

> > >

> > > configured, connectivity between the 2 routers confirmed, and interop

> > >

> > > with the HSMM-MESH network confirmed, I will make the instructions

> > >

> > > available to anyone interested.

> > >

> > > BILL wrote:

> > >

> > > >

> > >

> > > >

> > >

> > > > Kip Yes It was obvious that he said he was using OpenWRT in his first

> > >

> > > > message. I worked with him via Webex until about 12:30 and he is

> > >

> > > > trying to do a lot more than I know about.

> > >

> > > >

> > >

> > > > --- In ntms-hsmm@yahoogrou ps.com <mailto:ntms- hsmm%40yahoogrou

> > > ps.com>,

> > >

> > > > Kipton Moravec <kip@...> wrote:

> > >

> > > > >

> > >

> > > > > I see the problem. He is doing it from scratch and not using the

> > > Austin

> > >

> > > > > Version.

> > >

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> > > > > Kip

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> > > > > On Mon, 2009-10-19 at 00:25 -0500, WILLIAM WALLACE wrote:

> > >

> > > > > > Sorry John I did not see you second e-mail until I had finished

> > >

> > > > answering

> > >

> > > > > > your first one..

> > >

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> > > > > > So you have the OLSR software installed on top of OpenWRT. Ok

> > > you are

> > >

> > > > > > further along than I gathered from your first message.

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> > > > > > I am going to attach a user's manual from a group in South Africa

> > >

> > > > that steps

> > >

> > > > > > people through their system quite nicely and hopefully it will

> > >

> > > > help you get

> > >

> > > > > > your system up. They use the software that the German net uses.

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> > > > > > Take a look at it.

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> > > > > > Bill Wallace KC0TGY

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> > > > > Kipton Moravec AE5IB .- . ... -...

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> > > > > "Always do right; this will gratify some people and astonish the

> > > rest."

> > >

> > > > > --Mark Twain

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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."

--Mark Twain

[Non-text portions of this message have been removed]

1651. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-20 18:21:31 UTC
From: Bill V WA7NWP
Topic: 1634 Message: 1651

```
>
> The current system uses a random 10.xx.xx.xx based on the MAC address
> for the wireless side.

So if two folks have home mess systems would bring their toys together
for a meeting or whatever, they'd automatically hook up with each
other?

That sounds very cool!

Bill - WA7NWP
```

1652. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-20 22:31:42 UTC
From: John Barrett
Topic: 1634 Message: 1652

Unless I am misunderstanding, having all the routers distribute the same block of 172 addresses bothers me A LOT !!! there is no easy way then to have a server connected to the mesh and directly addressable from any other location in the mesh -- its just not possible unless you can be sure that no 2 machines will ever get the same address -- there are 2 ways to accomplish that -- centralized DHCP for the entire mesh, with all nodes technically capable of providing DHCP service but only one elected server actually doing it at any time, or by assigning a different block of 172 addresses to each router.

having assigned blocks even theoretically allows you to port forward from the internet to any machine in the mesh if needed, or servers can be connected to any node of the net and appear to be statically addressed as far as any other node or client can tell.

I MUST have missed something somewhere.

Kip -- pls alleviate my ignorance -- how do you attach for instance a mail server to the mesh and let other clients access it ?? assume for the sake of example that there are no internet gateways -- a strictly private mesh, and say a pacmail server bridged to vhf or hf as the mail backbone

Bill V WA7NWP wrote:
>
>
> >
> > The current system uses a random 10.xx.xx.xx based on the MAC address
> > for the wireless side.
>
> So if two folks have home mess systems would bring their toys together
> for a meeting or whatever, they'd automatically hook up with each
> other?
>
> That sounds very cool!
>
> Bill - WA7NWP
>
>

1653. Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-20 23:12:07 UTC
From: BILL
Topic: 1634 Message: 1653

JOhn: I think you simple plug it into the WAN (Internet) port in the back of any node/router, and the software takes care of letting all other nodes know that it is their. There is a writeup on this somewhere on the system, But I will make you the first frequently asked question on our new Web.

Bill Wallace

1654. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-20 23:23:49 UTC
From: Kipton Moravec
Topic: 1634 Message: 1654

On Tue, 2009-10-20 at 17:31 -0500, John Barrett wrote:
> Unless I am misunderstanding, having all the routers distribute the same
> block of 172 addresses bothers me A LOT !!! there is no easy way then
> to have a server connected to the mesh and directly addressable from any
> other location in the mesh -- its just not possible unless you can be
> sure that no 2 machines will ever get the same address -- there are 2
> ways to accomplish that -- centralized DHCP for the entire mesh, with
> all nodes technically capable of providing DHCP service but only one
> elected server actually doing it at any time, or by assigning a
> different block of 172 addresses to each router.
>
> having assigned blocks even theoretically allows you to port forward
> from the internet to any machine in the mesh if needed, or servers can
> be connected to any node of the net and appear to be statically
> addressed as far as any other node or client can tell.
>
> I MUST have missed something somewhere.
>
> Kip -- pls alleviate my ignorance -- how do you attach for instance a
> mail server to the mesh and let other clients access it ?? assume for
> the sake of example that there are no internet gateways -- a strictly
> private mesh, and say a pacmail server bridged to vhf or hf as the mail
> backbone

The same way you do it at home.

You are given an IP address from your ISP. This is the same as the
10.xx.xx.xx RF address. What you do with the data on the otherside of
the router is up to you.

Most of the time you NAT behind the firewall so no one can get from the
outside to your PC. Typically at home I use 192.168.1.xx. I am guessing
they are using 172.27.0.xx for the addresses behind the firewall,
because it is different than 192.168.xx.xx which may be your home
network and used on the WAN port.

A home if you have a email server, then you have to open up a port on
your firewall and forward it to one of your NAT addresses. That is what
we do now.

Another option if you have a fancy router, you can have a different
Ethernet port as a DMZ. That is what I was doing by changing LAN port 4
to address 172.28.0.1 and forwarding all ports not being used by the
router to 172.28.0.2. It is now a physically different LAN.

Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1655. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-20 23:30:02 UTC
From: John Barrett
Topic: 1634 Message: 1655

Kip -- call me -- I need to explain what I mean voice

Kipton Moravec wrote:
>
>
>
> On Tue, 2009-10-20 at 17:31 -0500, John Barrett wrote:
> > Unless I am misunderstanding, having all the routers distribute the
> same
> > block of 172 addresses bothers me A LOT !!! there is no easy way then
> > to have a server connected to the mesh and directly addressable from
> any
> > other location in the mesh -- its just not possible unless you can be
> > sure that no 2 machines will ever get the same address -- there are 2
> > ways to accomplish that -- centralized DHCP for the entire mesh, with
> > all nodes technically capable of providing DHCP service but only one
> > elected server actually doing it at any time, or by assigning a
> > different block of 172 addresses to each router.
> >
> > having assigned blocks even theoretically allows you to port forward
> > from the internet to any machine in the mesh if needed, or servers can
> > be connected to any node of the net and appear to be statically
> > addressed as far as any other node or client can tell.
> >
> > I MUST have missed something somewhere.
> >
> > Kip -- pls alleviate my ignorance -- how do you attach for instance a
> > mail server to the mesh and let other clients access it ?? assume for
> > the sake of example that there are no internet gateways -- a strictly
> > private mesh, and say a pacmail server bridged to vhf or hf as the mail
> > backbone
>
> The same way you do it at home.
>
> You are given an IP address from your ISP. This is the same as the
> 10.xx.xx.xx RF address. What you do with the data on the otherside of
> the router is up to you.
>
> Most of the time you NAT behind the firewall so no one can get from the
> outside to your PC. Typically at home I use 192.168.1.xx. I am guessing
> they are using 172.27.0.xx for the addresses behind the firewall,
> because it is different than 192.168.xx.xx which may be your home
> network and used on the WAN port.
>
> A home if you have a email server, then you have to open up a port on

> your firewall and forward it to one of your NAT addresses. That is what
> we do now.
>
> Another option if you have a fancy router, you can have a different
> Ethernet port as a DMZ. That is what I was doing by changing LAN port 4
> to address 172.28.0.1 and forwarding all ports not being used by the
> router to 172.28.0.2. It is now a physically different LAN.
>
> Kip
>
> --
> Kipton Moravec AE5IB .- . ... -...
>
> "Always do right; this will gratify some people and astonish the rest."
> --Mark Twain
>
>

1656. Public Web Page

Yahoo group: DAWG-HSMM
Date: 2009-10-20 23:48:34 UTC
From: BILL
Topic: 1656 Message: 1656

Here are some words I plan to use to describe the Discussion Areas on the New Web page. Does anyone have any corrections or suggestions?

Discussion Area
We use this discussion area to record suggestions, comments, and questions about the HSMM-MESH☐ technology. This area acts as an open forum on topics such as "How do I....?", "Why won't this work?", and others. The development team that developed this implementation of this technology already has a Served Client that is driving the design parameters of what it is that they need. You are welcome to modify this software to enhance it to meet the needs of your Served Agency, but this developmental team is not to add changes to this software that would be outside the scope of their mission.

Knowledge Base
We use this discussion to record common questions and answers that crop up in the course of implementing our technology. Topics include good sources of tools, information on building various parts of HSMM-MESH☐, and anything else that people in the project or interested in similar areas would find generally useful. A lot of this information is already on the web pages that we have provided.

Frequently Asked Questions
Here you will find Frequently Asked Questions and their Answers.

I still have a problem in this area as Microsoft Front Page would not support a discussion are and I had to get another bulletin board type software to perform this function. I still have to customize this new software to make it look like the actual Web Pages we have. Please excuse the disjointed look. It will be fixed.

Bill Wallace

1657. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-21 03:26:13 UTC
From: Glenn Currie
Topic: 1634 Message: 1657

Yes,

One of the major efforts in the version 3 firmware was to come up with
a system that would allow for a very large address space.

That was a lot of work. The earlier versions of the firmware only allowed
for 255 addresses. It was a very simple very low overhead system and was
more than enough to connect our local hospitals.

We had some interest from the Roadrunner Microwave Group and wanted
to allow for plenty of addresses.

We have a limited number of fixed, portable and mobile stations. We want to
be able to allow for many such stations and a mobile station from out of town
will eventually be able to drive through Austin and pass messages.

We hope to get store and forward sites in all major cites so, for example as
your drove up and down I-35 from Mexico to Canada and back, you could link
and pass messages at freeway speeds in every town that had store and forward
capability.

Lots of potential uses. Some of the commercial carriers will always have
better coverage than we could afford, but for emergency considerations,
the all ham infrastructure systems could be on line when other systems
are down.

Anyway at our next meeting here in Austin, we will be projecting a real time
graphic map of the mesh topology of the system at the meeting. We are
encouraging people to bring a laptop an their mesh node and we will see how
big a network we can build. It will be interesting to see the nodes come and
go as well as the links between all the nodes.

Attached is a sample map.

-Glenn

--- On Tue, 10/20/09, Bill V WA7NWP <wa7nwp@...> wrote:

From: Bill V WA7NWP <wa7nwp@...>
Subject: Re: [ntms-hsmm] Re: Mesh Config
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, October 20, 2009, 1:21 PM

>

> The current system uses a random 10.xx.xx.xx based on the MAC address

> for the wireless side.

So if two folks have home mess systems would bring their toys together for a meeting or whatever, they'd automatically hook up with each other?

That sounds very cool!

Bill - WA7NWP

[Non-text portions of this message have been removed]

1658. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-21 04:27:20 UTC
From: Rusty Haddock
Topic: 1634 Message: 1658

Glenn Currie wrote:
>Anyway at our next meeting here in Austin, we will be projecting a real time
>graphic map of the mesh topology of the system at the meeting.? We are
>encouraging people to bring a laptop an their mesh node and we will see how
>big a network we can build.? It will be interesting to see the nodes come and
>go as well as the links between all the nodes.
>
>Attached is a sample map.

Alas, Yahoo probably clipped the attachment.
Maybe put it in the files section??

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1659. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-21 07:46:35 UTC
From: John Barrett
Topic: 1634 Message: 1659

OK -- Kip and I are mostly on the same page except for ONE thing -- how the users (either PC clients or application servers may be considered "users") on any particular node appear to the rest of the mesh. What follows is an untested tentative solution to providing routable IP addresses for servers attached to a mesh node. This is VERY long winded, and intended to answer comments and questions posed by both Bill and Glen. Hope you find the idea interesting :) I discussed this with Kip earlier today, and have put a lot of additional thought into what is possible since my original vague maundering over the last 2 days.

You are probably already familiar with the NAT appearance that most any router gives to the internet -- no matter how many computers are on your private LAN, they all appear to be a single IP address to the rest of the world. This is the view that Kip has taken, and as such, requires that any SERVER (mail server, web server, ftp server for instance) attached to the node be exposed to the mesh via port forwarding. This is fine until such time that you need to have 2 machines both providing the same service... say 2 web servers that you wish to have both servers appear on the default web server port 80. This is not possible with the NAT architecture.

My design target is intended to eliminate the issue by assigning each mesh user unique IP address within the mesh address space... still in the 172.16.x.x to 172.31.x.x range just as in Kip's scenario, but with each mesh node having its own subset of the address space permanently assigned. If each node is assigned a block of 256 addresses (the standard Class C subnet that you usually get on a router), the mesh address space can be broken up into 4096 blocks.

If 4096 nodes is considered insufficient (not enough nodes to go around in some cases) or a node allocation of 256 users per node is considered wasteful (your typical user with a mobile mesh node checking his mail doesn't NEED 256 addresses), there is always the Class E address space which is designated for experimental use. Class E (240.x.x.x to 255.x.x.x) has a full 28 bits of addressing available, and if we were to allocate a block of 16 address per node, that leaves 24 bits for the node address, or a potential for 16.77 million nodes in the network. It is interesting to note that in this case the node address portion of the ip address is 3 octets, just like the 10.x.x.x mesh address that is created for each node by using the last 3 octets of the router MAC address !! Since the current scenario cannot have more than 16 million nodes, there is no loss of potential nodes if this proposal/extension is implemented.

There are several drawbacks to implementing "visible" addresses on each mesh node, as follows:

1. Some sort of route updating protocol will need to be enabled to advertise what addresses are reachable via a given mesh node. I plan to experiment with BGP (Border Gateway Protocol) to handle the advertisements and forwarding of advertisements to other indirectly connected meshes. (I believe BGP broadcasts will handle updating all nodes within a continuous mesh segment, but if, for instance, 2 meshes are bridged via a tunnel/vpn over the internet to bridge a gap where there is no coverage, the advert will need to be forwarded across the tunnel.)

2. An adaptation of DNS will be required to allow access to the visible servers on any given node. This will probably end up being something along the lines of Dynamic DNS where the computer hosting the service will register it's IP address and host name with the DNS server. The adaptation required will be implementing a propagation system to distribute these DNS changes to all mesh nodes in the network (or at least to the designated name servers in each mesh segment)

3. At first, using the last 3 octets of the MAC address will be fine for computing the mesh node address and the visible ip address block, however, eventually we are going to run into a situation where 2 nodes have the same 3 octets, and there will be a conflict. One solution might be to create a registry website where you can check if your octet triple is already in use by another operator, and where you can reserve your octet triple, or be assigned a unique triple if yours is already in use. (This is also a drawback of the current system, and needs to be addressed soon, especially if you really wish to see a coast to coast mesh network with near-seamless operation)

On the plus side:

1. A node may have multiple visible (directly addressable) servers, without giving up the ability to have a large pool of users on the node isolated from the visible address space by NAT. (Blame this one on Kip.. set up a VLAN for the visible servers on one or more ethernet ports, and another VLAN with DHCP/NAT in the 172 address range for everyone else to use)

2. A node is NOT required to run the visible address system. Current NAT only nodes should have no problem interoperating with the proposed visible address system. If we use the Class E address space for the visible addresses, we dont even have to ask the current nodes to reconfigure their private network addresses to clear the 172 address space for the visible address system.

3. For nodes implementing the proposal, as they move from mesh segment to mesh segment, the BGP announcements will cause a cellular-like "follow me" effect where routing for ip addresses attached to the node will propogate across the network, making any servers on the node available for use even though the mesh node handing the servers has left one mesh segment and entered another (definition time: mesh segment: any group of mesh nodes where there is a continuous mesh path between any 2 members of the segment. For instance: To begin with, Plano and Dallas

will likely be separate segments with no purely mesh path available, but when Richardson adds nodes and fills in the gap, then Plano/Richardson/Dallas will merge into a single mesh segment). The "follow me" effect presumes that where there are gaps in coverage, that one or more nodes in each isolated segment will implement a VPN/Tunnel over the internet to link the segments.

4. If the Dynamic DNS portion of the proposal is implemented, then for all practical purposes, any server can be connected to any node, or even moved to a different node, and still provide the service as though nothing had changed.. This gives a degree of resilience in the face of mesh hardware failures. If the server is moved to a mesh node that does not implement the visible address space, but does implement a Dynamic DNS server, the server can still become visible by advertising the address of the mesh node it is connected to, and using UPnP to open the required incoming port so long as no other server on the node already has the needed port(s) in use.

There is one additional twist on the proposal/extension as presented so far. It may be desirable to move the mesh node addresses into the Class E address space, allowing for 28 bits of the MAC address to be used to calculate the mesh node address, bringing the potential node count up to 268.4 million nodes, and significantly reducing the chance of conflicts between mesh nodes. If this path were taken, then the visible address space might be moved into the 10.x.x.x range with a block size of 16 addresses per node. This would allow for 20 bits of node address, or 1 million nodes with visible server capability and would almost absolutely require that there be a registry system to prevent/resolve range assignment conflicts.

OK -- thats as far as I can go with this without more thought or some feedback on the ideas presented :)

Thanks for reading this far
John AE5ET

Glenn Currie wrote:
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> Yes,
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> One of the major efforts in the version 3 firmware was to come up with
> a system that would allow for a very large address space.
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> We hope to get store and forward sites in all major cites so, for
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> go as well as the links between all the nodes.
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> Attached is a sample map.
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> -Glenn
>
> --- On Tue, 10/20/09, Bill V WA7NWP <wa7nwp@...
> <mailto:wa7nwp%40gmail.com>> wrote:
>
> From: Bill V WA7NWP <wa7nwp@... <mailto:wa7nwp%40gmail.com>>
> Subject: Re: [ntms-hsmm] Re: Mesh Config
> To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> Date: Tuesday, October 20, 2009, 1:21 PM
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> >
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> > The current system uses a random 10.xx.xx.xx based on the MAC address
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> > for the wireless side.
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> Bill - WA7NWP
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1660. Re: [ntms-hsmm] Re: Mesh Config

Yahoo group: DAWG-HSMM
Date: 2009-10-21 16:17:14 UTC
From: Glenn Currie
Topic: 1634 Message: 1660

Lots of good ideas here. It would be good to mention that current version 4 firmware is focused to moving to IPv6 as a number of things in IPv6 have been changed with regard to addressing and support of mobile systems.

IPv6 is not perfect and will have work-arounds and patches for various systems just as IPv4 required a variety of patches to keep up with changes in real world user habits.

We just went through an extended discussion of the pros and cons of the move to IPv6 on the Austin HSMM SIG group, but we are moving HSMM-MESH to IPv6 as quickly as we can.

-Glenn

--- On Wed, 10/21/09, John Barrett <john.ae5et@...> wrote:

From: John Barrett <john.ae5et@...>
Subject: Re: [ntms-hsmm] Re: Mesh Config
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, October 21, 2009, 2:46 AM

OK -- Kip and I are mostly on the same page except for ONE thing -- how

the users (either PC clients or application servers may be considered

"users") on any particular node appear to the rest of the mesh. What

follows is an untested tentative solution to providing routable IP

addresses for servers attached to a mesh node. This is VERY long winded,

and intended to answer comments and questions posed by both Bill and

Glen. Hope you find the idea interesting :) I discussed this with Kip

earlier today, and have put a lot of additional thought into what is

possible since my original vague maundering over the last 2 days.

You are probably already familiar with the NAT appearance that most any

router gives to the internet -- no matter how many computers are on your

private LAN, they all appear to be a single IP address to the rest of

the world. This is the view that Kip has taken, and as such, requires

that any SERVER (mail server, web server, ftp server for instance)

attached to the node be exposed to the mesh via port forwarding. This is

fine until such time that you need to have 2 machines both providing the same service... say 2 web servers that you wish to have both servers appear on the default web server port 80. This is not possible with the NAT architecture.

My design target is intended to eliminate the issue by assigning each mesh user unique IP address within the mesh address space... still in the 172.16.x.x to 172.31.x.x range just as in Kip's scenario, but with each mesh node having its own subset of the address space permanently assigned. If each node is assigned a block of 256 addresses (the standard Class C subnet that you usually get on a router), the mesh address space can be broken up into 4096 blocks.

If 4096 nodes is considered insufficient (not enough nodes to go around in some cases) or a node allocation of 256 users per node is considered wasteful (your typical user with a mobile mesh node checking his mail doesn't NEED 256 addresses), there is always the Class E address space which is designated for experimental use. Class E (240.x.x.x to 255.x.x.x) has a full 28 bits of addressing available, and if we were to allocate a block of 16 address per node, that leaves 24 bits for the node address, or a potential for 16.77 million nodes in the network. It is interesting to note that in this case the node address portion of the ip address is 3 octets, just like the 10.x.x.x mesh address that is created for each node by using the last 3 octets of the router MAC address !! Since the current scenario cannot have more than 16 million nodes, there is no loss of potential nodes if this proposal/extension is implemented.

There are several drawbacks to implementing "visible" addresses on each mesh node, as follows:

1. Some sort of route updating protocol will need to be enabled to advertise what addresses are reachable via a given mesh node. I plan to

experiment with BGP (Border Gateway Protocol) to handle the advertisements and forwarding of advertisements to other indirectly connected meshes. (I believe BGP broadcasts will handle updating all nodes within a continuous mesh segment, but if, for instance, 2 meshes are bridged via a tunnel/vpn over the internet to bridge a gap where there is no coverage, the advert will need to be forwarded across the tunnel.)

2. An adaptation of DNS will be required to allow access to the visible servers on any given node. This will probably end up being something along the lines of Dynamic DNS where the computer hosting the service will register it's IP address and host name with the DNS server. The adaptation required will be implementing a propagation system to distribute these DNS changes to all mesh nodes in the network (or at least to the designated name servers in each mesh segment)

3. At first, using the last 3 octets of the MAC address will be fine for computing the mesh node address and the visible ip address block, however, eventually we are going to run into a situation where 2 nodes have the same 3 octets, and there will be a conflict. One solution might be to create a registry website where you can check if your octet triple is already in use by another operator, and where you can reserve your octet triple, or be assigned a unique triple if yours is already in use. (This is also a drawback of the current system, and needs to be addressed soon, especially if you really wish to see a coast to coast mesh network with near-seamless operation)

On the plus side:

1. A node may have multiple visible (directly addressable) servers, without giving up the ability to have a large pool of users on the node isolated from the visible address space by NAT. (Blame this one on Kip.. set up a VLAN for the visible servers on one or more ethernet ports, and

another VLAN with DHCP/NAT in the 172 address range for everyone else to use)

2. A node is NOT required to run the visible address system. Current NAT only nodes should have no problem interoperating with the proposed visible address system. If we use the Class E address space for the visible addresses, we dont even have to ask the current nodes to reconfigure their private network addresses to clear the 172 address space for the visible address system.

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OK -- thats as far as I can go with this without more thought or some feedback on the ideas presented :)

Thanks for reading this far

John AE5ET

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> Attached is a sample map.

>

> -Glenn

>

> --- On Tue, 10/20/09, Bill V WA7NWP <wa7nwp@gmail. com

> <mailto:wa7nwp% 40gmail.com> > wrote:

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> From: Bill V WA7NWP <wa7nwp@gmail. com <mailto:wa7nwp% 40gmail.com> >

> Subject: Re: [ntms-hsmm] Re: Mesh Config

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> Date: Tuesday, October 20, 2009, 1:21 PM

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> Bill - WA7NWP

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1661. Linkysys Routers

Yahoo group: DAWG-HSMM
Date: 2009-10-24 02:22:32 UTC
From: James C. Duram
Topic: 1661 Message: 1661

Which models of Linksys routers will work with ARES-MESH?

I do know that the following will work:

WRT54G ver 4 or less
WRT54GL

I have a WRT54GS ver 4. Will it work with ARES-MESH?

Thanks,

Jim, K8COP
Michigan

1662. Re: [ntms-hsmm] Linkysys Routers

Yahoo group: DAWG-HSMM
Date: 2009-10-24 03:23:39 UTC
From: Glenn Currie
Topic: 1661 Message: 1662

Yes, it will work.

Please note when you pick up the binary file to load, get the version for the GS. The code that gets loaded is exactly the same but the loader expects a slightly different format. Once in memory it is exactly the same code.

The firmware will run on the models you listed plus

WRT54GS versions 1 - 4.

The speed booster models had some extra code in them
WRT54GS models 1 - 3 have double the memory of the other models
8Mb Flash 32Mb RAM These are handy for special testing and I hang onto them when I find them.

The WRT54GS version 4 has 4Mb Flash and 16Mb RAM which is what the Other models including the WRT54GL have. The pads are on the board to solder on a larger memory chip on most of the other boards. We are trying to keep our code for the Phase I HSMM-MESH nodes working within the memory space of off the shelf unmodified hardware. That keeps things simple

We have some experimental nodes with a lot more resources but we will never get the cost down below a mass produced device like the WRT54GL. And for running off a battery, the WRT54GL is the champ. It can run on anywhere from just under 4 VDC to 18VDC and pulls less current than all the other models. No moving parts Linux computer with radio running on 3 watts of power will be hard to beat.

4mb Flash 16mb RAM is enough to run the HSMM-MESH code as we call it now. Seems the ARRL has a lot of legal protection for ARES, so we changed to HSMM-MESH to trademark the name.

We intend to keep the software open and free, but if it says HSMM-MESH it will work to our particular specs. It is just to cut down on user confusion. People can change the code if they want to, but we are trying to keep it where if it says HSMM-MESH, then you know what you have and what it will work with.

-Glenn
KD5MFW
Round Rock, TX.

--- On Fri, 10/23/09, James C. Duram <jimk8cop@...> wrote:

From: James C. Duram <jimk8cop@...>
Subject: [ntms-hsmm] Linkysys Routers
To: ntms-hsmm@yahoogroups.com
Date: Friday, October 23, 2009, 9:22 PM

Which models of Linksys routers will work with ARES-MESH?

I do know that the following will work:

WRT54G ver 4 or less

WRT54GL

I have a WRT54GS ver 4. Will it work with ARES-MESH?

Thanks,

Jim, K8COP

Michigan

[Non-text portions of this message have been removed]

1663. Re: Linkysys Routers

Yahoo group: DAWG-HSMM
Date: 2009-10-24 13:57:59 UTC
From: barkevich
Topic: 1661 Message: 1663

What about the WRT54G-TM?

--- In ntms-hsmm@yahoogroups.com, Glenn Currie <kd5mfw_7@...> wrote:
>
> Yes, it will work.
>
> Please note when you pick up the binary file to load, get the version for the GS.
> The code that gets loaded is exactly the same but the loader expects a slightly
> different format. Once in memory it is exactly the same code.
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> The WRT54GS version 4 has 4Mb Flash and 16Mb RAM which is what the
> Other models including the WRT54GL have. The pads are on the board to solder
> on a larger memory chip on most of the other boards. We are trying to keep
> our code for the Phase I HSMM-MESH nodes working within the memory space
> of off the shelf unmodified hardware. That keeps things simple
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> We have some experimental nodes with a lot more resources but we will never
> get the cost down below a mass produced device like the WRT54GL. And for
> running off a battery, the WRT54GL is the champ. It can run on anywhere from
> just under 4 VDC to 18VDC and pulls less current than all the other models.
> No moving parts Linux computer with radio running on 3 watts of power will be
> hard to beat.
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> 4mb Flash 16mb RAM is enough to run the HSMM-MESH code as we call it
> now. Seems the ARRL has a lot of legal protection for ARES, so we changed
> to HSMM-MESH to trademark the name.
>
> We intend to keep the software open and free, but if it says HSMM-MESH it
> will work to our particular specs. It is just to cut down on user confusion.
> People can change the code if they want to, but we are trying to keep it where
> if it says HSMM-MESH, then you know what you have and what it will work with.
>
> -Glenn
> KD5MFW
> Round Rock, TX.
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> --- On Fri, 10/23/09, James C. Duram <jimk8cop@...> wrote:
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> From: James C. Duram <jimk8cop@...>
> Subject: [ntms-hsmm] Linkysys Routers
> To: ntms-hsmm@yahoogroups.com
> Date: Friday, October 23, 2009, 9:22 PM
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1664. Re: [ntms-hsmm] Re: Linkysys Routers

Yahoo group: DAWG-HSMM
Date: 2009-10-24 15:55:22 UTC
From: Glenn Currie
Topic: 1661 Message: 1664

I think it will work. I have not personally tried this version, but the hardware is fine. Evidently the software loader works differently on this version so you have to do a few tricks to get the new firmware in.

On the units discussed previously, you just go to the firmware update page on the web page internal to the router and tell it to update the firmware. When it asks for a filename, you just aim it at our firmware instead of a Linksys file and it takes it an loads it.

See the following instructions to get around the different loader in the TM. It is tedious, particularly if you are not a Unix or Linux user, but would expect it to work.

Once the firmware is loaded, everything should run fine.

<http://en.wikipedia.org/wiki/Linksys_WRT54G_series#WRT54G-TM>

-Glenn

--- On Sat, 10/24/09, barkevich <barkevich@...> wrote:

From: barkevich <barkevich@...>
Subject: [ntms-hsmm] Re: Linkysys Routers
To: ntms-hsmm@yahoogroups.com
Date: Saturday, October 24, 2009, 8:57 AM

What about the WRT54G-TM?

--- In ntms-hsmm@yahoogrou ps.com, Glenn Currie <kd5mfw_7@.. .> wrote:

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> Yes, it will work.

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> on a larger memory chip on most of the other boards. We are trying to keep

> our code for the Phase I HSMM-MESH nodes working within the memory space

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1665. Re: Linkysys Routers

Yahoo group: DAWG-HSMM
Date: 2009-10-25 15:12:34 UTC
From: k.sanders@sbcglobal.net
Topic: 1661 Message: 1665

I have a WRT54G Ver 6. Is there anypoint in me persuing using this in a future system?

73, Ken - AE6LA

1666. Re: [ntms-hsmm] Re: Linkysys Routers

Yahoo group: DAWG-HSMM
Date: 2009-10-25 15:40:13 UTC
From: Kipton Moravec
Topic: 1661 Message: 1666

On Sun, 2009-10-25 at 15:12 +0000, k.sanders@... wrote:
> I have a WRT54G Ver 6. Is there anypoint in me persuing using this in a future system?
>
> 73, Ken - AE6LA
>

There are versions of DD-WRT that will work with it. But it will nor work with the HSMM-MESH software because after version 4 they reduced the memory.

I have two routers that will not work with the MESH software. I use them for routing to computers on a different channel than the MESH.

I bring the signal to the location using the MESH on Channel 1, then let people attach using my non-mesh router (DD-WRT) on channel 6 or 11.

Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1667. Re: [ntms-hsmm] Re: Linkysys Routers

Yahoo group: DAWG-HSMM
Date: 2009-10-27 02:00:12 UTC
From: Don LaBrenz
Topic: 1661 Message: 1667

Yes the WRT54G-TM works just fine. As mentioned the firmware out of
the box will not allow you to upload third part firmware. I have been
using
the WRT54G-TM CFE update found on the DD-WRT website. I have
then been flashing DD-WRT's fermware for a plain ol' WRT54G to the router
(the memery is big enough to load the MEGA version if you wish). After
that, you can update to just about anything you want. I have been playing
with a few WRT54G-TM's here with no problems.

Don

Glenn Currie wrote:
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>
> I think it will work. I have not personally tried this version, but
> the hardware is fine. Evidently the software loader works differently
> on this version so you have to do a few tricks to get the new
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> page on the web page internal to the router and tell it to update the
> firmware. When it asks for a filename, you just aim it at our firmware
> instead of a Linksys file and it takes it an loads it.
>
> See the following instructions to get around the different loader in
> the TM. It is tedious, particularly if you are not a Unix or Linux user,
> but would expect it to work.
>
> Once the firmware is loaded, everything should run fine.
>
> <http://en.wikipedia.org/wiki/Linksys_WRT54G_series#WRT54G-TM
> <http://en.wikipedia.org/wiki/Linksys_WRT54G_series#WRT54G-TM>>
>
> -Glenn
>
> --- On Sat, 10/24/09, barkevich <barkevich@...
> <mailto:barkevich%40yahoo.com>> wrote:
>
> From: barkevich <barkevich@... <mailto:barkevich%40yahoo.com>>
> Subject: [ntms-hsmm] Re: Linkysys Routers
> To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> Date: Saturday, October 24, 2009, 8:57 AM
>
>
>

> What about the WRT54G-TM?
>
> --- In ntms-hsmm@yahoogrou ps.com, Glenn Currie <kd5mfw_7@.. .> wrote:
>
> >
>
> > Yes, it will work.
>
> >
>
> > Please note when you pick up the binary file to load, get the
> version for the GS.
>
> > The code that gets loaded is exactly the same but the loader expects
> a slightly
>
> > different format. Once in memory it is exactly the same code.
>
> >
>
> > The firmware will run on the models you listed plus
>
> >
>
> > WRT54GS versions 1 - 4.
>
> >
>
> > The speed booster models had some extra code in them
>
> > WRT54GS models 1 - 3 have double the memory of the other models
>
> > 8Mb Flash 32Mb RAM These are handy for special testing and I hang onto
>
> > them when I find them.
>
> >
>
> > The WRT54GS version 4 has 4Mb Flash and 16Mb RAM which is what the
>
> > Other models including the WRT54GL have. The pads are on the board
> to solder
>
> > on a larger memory chip on most of the other boards. We are trying
> to keep
>
> > our code for the Phase I HSMM-MESH nodes working within the memory space
>
> > of off the shelf unmodified hardware. That keeps things simple
>

> >
>
> > We have some experimental nodes with a lot more resources but we
> will never
>
> > get the cost down below a mass produced device like the WRT54GL.
> And for
>
> > running off a battery, the WRT54GL is the champ. It can run on
> anywhere from
>
> > just under 4 VDC to 18VDC and pulls less current than all the other
> models.
>
> > No moving parts Linux computer with radio running on 3 watts of
> power will be
>
> > hard to beat.
>
> >
>
> > 4mb Flash 16mb RAM is enough to run the HSMM-MESH code as we call it
>
> > now. Seems the ARRL has a lot of legal protection for ARES, so we
> changed
>
> > to HSMM-MESH to trademark the name.
>
> >
>
> > We intend to keep the software open and free, but if it says
> HSMM-MESH it
>
> > will work to our particular specs. It is just to cut down on user
> confusion.
>
> > People can change the code if they want to, but we are trying to
> keep it where
>
> > if it says HSMM-MESH, then you know what you have and what it will
> work with.
>
> >
>
> > -Glenn
>
> > KD5MFW
>
> > Round Rock, TX.
>

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>
> > --- On Fri, 10/23/09, James C. Duram <jimk8cop@.. .> wrote:
>
> >
>
> > From: James C. Duram <jimk8cop@.. .>
>
> > Subject: [ntms-hsmm] Linkysys Routers
>
> > To: ntms-hsmm@yahoogrou ps.com
>
> > Date: Friday, October 23, 2009, 9:22 PM
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>

> > Which models of Linksys routers will work with ARES-MESH?
>
> >
>
> >
>
> >
>
> > I do know that the following will work:
>
> >
>
> >
>
> >
>
> > WRT54G ver 4 or less
>
> >
>
> > WRT54GL
>
> >
>
> >
>
> >
>
> > I have a WRT54GS ver 4. Will it work with ARES-MESH?
>
> >
>
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>
> > Thanks,
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>
> > Jim, K8COP
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> > Michigan
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> > [Non-text portions of this message have been removed]
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1668. Lasers

Yahoo group: DAWG-HSMM
Date: 2009-10-27 02:46:16 UTC
From: davemynatt
Topic: 1668 Message: 1668

Any one doing any work with laser as opposed to wireless routers? Just wondering if we have any experience.

Dave
KA0SWT

1669. Ubiquiti XR-series Mini-PCI modems and External Power Amplifiers

Yahoo group: DAWG-HSMM
Date: 2009-11-03 20:13:35 UTC
From: jks19714
Topic: 1669 Message: 1669

All --

I am embarking on a project involving interfacing a Ubiquiti Networks RouterStation, XR-3 Mini-PCI modem (9 cm OFDM) and an Ionica 15-watt solid state amplifier. I hope to interface this with a slot antenna to create a useful Internet access system locally and on-board my Mobile Communications Unit (see www.armymars.net for more info).

I plan to use DD-WRT software on the RouterBoard. Does anyone on the group know if

a) this is possible?
b) it has been tried before? or
c) how to assert a voltage to the sequencer when T/R switching is required?

Many thanks. If I am successful, I will certainly document the effort on my website (and perhaps to QST or QEX, for that matter).

73s,
john
Charter Member of Geeks Ubiquitus

_____

John K Scoggin, Jr. W3JKS/AAT3BF/AAM3EDE/AAA9SL
US Army Military Affiliate Radio System
Delaware Gateway Station AAB3DE
Special Consultant - Technology
Emergency Operations Officer ☐ Delaware
"Old RADEF Officers never die, they simply decay exponentially "

Chief Engineer
Mobile Communications Unit 37 (AAT3CAD/W3MCU)
http://www.armymars.net/ArmyMARS/MCU/index.html

ARRL Assistant Section Manager ☐ Delaware
Email: aat3bf@...
Telephone: (302) 451-5000

1670. Re: [ntms-hsmm] Ubiquiti XR-series Mini-PCI modems and External Power Amplifiers

Yahoo group: DAWG-HSMM
Date: 2009-11-04 13:12:52 UTC
From: John K. Scoggin
Topic: 1669 Message: 1670

I picked up both the XR3 (1/2-price) and the Ionica 15 watt amps off of EBay yesterday. Since Ionica was a UK company, that is where I am finding the amps. The XR3 was from a fellow here in the States.

My potential applications are primarily emcomm-related . One is a possible Internet access system atop an old Western Union microwave tower/hut in North Wilmington (near the "highest point" in Delaware, which isn't saying much). The other is a mobile communications unit I'm building (http://www.armymars .net/ArmyMARS/ MCU/index. html). In both cases, I was looking at feeding either omnidirectional slot or 180 degree sector antennas with the amplified units and then using some "barefoot" XR3's with directional antennas for the remote nodes.

73s,

john

Charter Member of Geeks Ubiquitus

John K Scoggin, Jr. W3JKS/AAT3BF/AAM3EDE/AAA9SL

US Army Military Affiliate Radio System

Delaware Gateway Station AAB3DE

Special Consultant - Technology

Emergency Operations Officer – Delaware

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Chief Engineer

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http://www.armymars.net/ArmyMARS/MCU/index.html

ARRL Assistant Section Manager – Delaware

Email: aat3bf@...

Telephone: (302) 451-5000

73s,

john

Charter Member of Geeks Ubiquitus

John K Scoggin, Jr. W3JKS/AAT3BF/AAM3EDE/AAA9SL

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Delaware Gateway Station AAB3DE

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http://www.armymars.net/ArmyMARS/MCU/index.html

ARRL Assistant Section Manager – Delaware

Email: aat3bf@...

Telephone: (302) 451-5000

----- Original Message -----
From: "John Spoonhower" <jpspoonhower@...>
To: aat3bf@...
Sent: Wednesday, November 4, 2009 7:28:00 AM
Subject: Re: [ntms-hsmm] Ubiquiti XR-series Mini-PCI modems and External Power Amplifiers

John,
I too have looked at this hardware and considered such a project. What particular radios are you considering? What is your source for the amp? What is your vision for the end application; how will the system be used?
Maybe I can be of some help with some aspects of the project.
73, John, KC2DU

John Spoonhower

--- On Tue, 11/3/09, jks19714 <aat3bf@...> wrote:

From: jks19714 <aat3bf@...>
Subject: [ntms-hsmm] Ubiquiti XR-series Mini-PCI modems and External Power Amplifiers
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, November 3, 2009, 3:13 PM

All --

I am embarking on a project involving interfacing a Ubiquiti Networks RouterStation, XR-3 Mini-PCI modem (9 cm OFDM) and an Ionica 15-watt solid state amplifier. I hope to interface this with a slot antenna to create a useful Internet access system locally and on-board my Mobile Communications Unit (see www.armymars. net for more info).

I plan to use DD-WRT software on the RouterBoard. Does anyone on the group know if

a) this is possible?
b) it has been tried before? or
c) how to assert a voltage to the sequencer when T/R switching is required?

Many thanks. If I am successful, I will certainly document the effort on my website (and perhaps to QST or QEX, for that matter).

73s,
john
Charter Member of Geeks Ubiquitus

_____ _____ _____ _____
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Chief Engineer
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http://www.armymars .net/ArmyMARS/ MCU/index. html

ARRL Assistant Section Manager – Delaware
Email: aat3bf@armymars. net
Telephone: (302) 451-5000

[Non-text portions of this message have been removed]

1671. Re: Lasers

Yahoo group: DAWG-HSMM
Date: 2009-11-04 14:59:19 UTC
From: jks19714
Topic: 1668 Message: 1671

The San Bernadino Microwave Society has apparently done some work on optical communications within the past year:

http://www.ham-radio.com/sbms/sd/opticalprojindx.htm <http://www.ham-radio.com/sbms/sd/opticalprojindx.htm>

K3PGP has been tinkering with optical communications for quite some time:

http://www.k3pgp.org/laser.htm <http://www.k3pgp.org/laser.htm>

The information on the ARRL's Technical Information Service is very, very old (as seems usual for those pages, unfortunately).

73s

john W3JKS/AAT3BF/AAM3EDE/AAA9SL

--- In ntms-hsmm@yahoogroups.com, "davemynatt" <dave@...> wrote:
>
> Any one doing any work with laser as opposed to wireless routers? Just wondering if we have any experience.
>
> Dave
> KA0SWT
>

[Non-text portions of this message have been removed]

1672. RE: [ntms-hsmm] Re: Lasers

Yahoo group: DAWG-HSMM
Date: 2009-11-05 03:11:41 UTC
From: Dave
Topic: 1668 Message: 1672

Yeah, it's too bad that the ARRL articles are typically old, like you said. Thank you for writing; I couldn't find even this stuff! Don't know if it has any value -maybe not- but if it could be tamed for use as a high-speed link backbone the door gets wider.

Dave
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++++/

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of jks19714
Sent: Wednesday, November 04, 2009 07:59
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Lasers

The San Bernadino Microwave Society has apparently done some work on optical communications within the past year:

http://www.ham-radio.com/sbms/sd/opticalprojindx.htm
<http://www.ham-radio.com/sbms/sd/opticalprojindx.htm>

K3PGP has been tinkering with optical communications for quite some time:

http://www.k3pgp.org/laser.htm <http://www.k3pgp.org/laser.htm>

The information on the ARRL's Technical Information Service is very, very old (as seems usual for those pages, unfortunately).

73s

john W3JKS/AAT3BF/AAM3EDE/AAA9SL

--- In ntms-hsmm@yahoogroups.com, "davemynatt" <dave@...> wrote:
>
> Any one doing any work with laser as opposed to wireless routers? Just wondering if we have any experience.
>
> Dave
> KA0SWT
>

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.49/2480 - Release Date: 11/04/09 07:37:00

[Non-text portions of this message have been removed]

1673. Re: Lasers

Yahoo group: DAWG-HSMM
Date: 2009-11-05 13:47:51 UTC
From: jks19714
Topic: 1668 Message: 1673

From what I could find online, I got the impression that low-bandwidth messaging was practical using signal processing on non-Line-of-Sight paths. I have not seen any great use of optical systems other than point-to-point laser-based LOS systems, though.

Right now, I'm concentrating on the new 9 cm wireless LAN equipment, as I believe that it will provide immediate results on a band we don't utilize very well. Use it or lose it!

73s,
john W3JKS/AAT3BF/AAM3EDE/AAA9SL

--- In ntms-hsmm@yahoogroups.com, "Dave" <dave@...> wrote:
>
> Yeah, it's too bad that the ARRL articles are typically old, like you said.
> Thank you for writing; I couldn't find even this stuff! Don't know if it has
> any value -maybe not- but if it could be tamed for use as a high-speed link
> backbone the door gets wider.
>
> Dave
> DM78qg // KA0SWT
> /++++++++++++++++++++++++++++++++/
>
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> -----Original Message-----
> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
> Of jks19714
> Sent: Wednesday, November 04, 2009 07:59
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Re: Lasers
>
>
> The San Bernadino Microwave Society has apparently done some work on optical
> communications within the past year:
>
> http://www.ham-radio.com/sbms/sd/opticalprojindx.htm
> <http://www.ham-radio.com/sbms/sd/opticalprojindx.htm>
>
> K3PGP has been tinkering with optical communications for quite some
> time:
>
> http://www.k3pgp.org/laser.htm <http://www.k3pgp.org/laser.htm>
>
> The information on the ARRL's Technical Information Service is very, very
> old (as seems usual for those pages, unfortunately).

>
> 73s
>
> john W3JKS/AAT3BF/AAM3EDE/AAA9SL
>
>
> --- In ntms-hsmm@yahoogroups.com, "davemynatt" <dave@> wrote:
> >
> > Any one doing any work with laser as opposed to wireless routers? Just
> wondering if we have any experience.
> >
> > Dave
> > KA0SWT
> >
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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>
> No virus found in this outgoing message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.49/2480 - Release Date: 11/04/09 07:37:00
>
>
> [Non-text portions of this message have been removed]
>

1674. RE: [ntms-hsmm] Re: Lasers

Yahoo group: DAWG-HSMM
Date: 2009-11-05 17:23:41 UTC
From: Dave
Topic: 1668 Message: 1674

Tell me more about 9cm. That's pretty high-freq stuff too. Are you saying you're using it for a backbone, HSMM-type replacement?

Dave
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++++/

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of jks19714
Sent: Thursday, November 05, 2009 06:48
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Lasers

From what I could find online, I got the impression that low-bandwidth messaging was practical using signal processing on non-Line-of-Sight paths. I have not seen any great use of optical systems other than point-to-point laser-based LOS systems, though.

Right now, I'm concentrating on the new 9 cm wireless LAN equipment, as I believe that it will provide immediate results on a band we don't utilize very well. Use it or lose it!

73s,
john W3JKS/AAT3BF/AAM3EDE/AAA9SL

--- In ntms-hsmm@yahoogroups.com, "Dave" <dave@...> wrote:
>
> Yeah, it's too bad that the ARRL articles are typically old, like you said.
> Thank you for writing; I couldn't find even this stuff! Don't know if
> it has any value -maybe not- but if it could be tamed for use as a
> high-speed link backbone the door gets wider.
>
> Dave
> DM78qg // KA0SWT
> /++++++++++++++++++++++++++++++++/
>
>
>
>
>
> -----Original Message-----
> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On
> Behalf Of jks19714
> Sent: Wednesday, November 04, 2009 07:59

> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Re: Lasers
>
>
> The San Bernadino Microwave Society has apparently done some work on
> optical communications within the past year:
>
> http://www.ham-radio.com/sbms/sd/opticalprojindx.htm
> <http://www.ham-radio.com/sbms/sd/opticalprojindx.htm>
>
> K3PGP has been tinkering with optical communications for quite some
> time:
>
> http://www.k3pgp.org/laser.htm <http://www.k3pgp.org/laser.htm>
>
> The information on the ARRL's Technical Information Service is very,
> very old (as seems usual for those pages, unfortunately).
>
> 73s
>
> john W3JKS/AAT3BF/AAM3EDE/AAA9SL
>
>
> --- In ntms-hsmm@yahoogroups.com, "davemynatt" <dave@> wrote:
> >
> > Any one doing any work with laser as opposed to wireless routers?
> > Just
> wondering if we have any experience.
> >
> > Dave
> > KA0SWT
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> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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> No virus found in this outgoing message.
> Checked by AVG - www.avg.com
> Version: 8.5.424 / Virus Database: 270.14.49/2480 - Release Date:
> 11/04/09 07:37:00
>
>
> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.424 / Virus Database: 270.14.51/2482 - Release Date: 11/05/09 07:37:00

[Non-text portions of this message have been removed]

1675. Re: [ntms-hsmm] Ubiquiti XR-series Mini-PCI modems and External Power Amplifiers

Yahoo group: DAWG-HSMM
Date: 2009-11-05 17:36:02 UTC
From: John Spoonhower
Topic: 1669 Message: 1675

So the basic idea is to provide a hub arrangement with the tower at the center of the hub. The remotes would access the tower radio on 3.5 Ghz. Are the remotes mobile? Is the internet being made availble at the tower or elsewhere? If so, how will this be accomplished.
Sorry for all the questions...I am just trying to learn. Please correct me if my assumptions are wrong.
73,
KC2DU

John Spoonhower

--- On Wed, 11/4/09, John K. Scoggin <aat3bf@armymars.net> wrote:

From: John K. Scoggin <aat3bf@...>
Subject: Re: [ntms-hsmm] Ubiquiti XR-series Mini-PCI modems and External Power Amplifiers
To: "John Spoonhower" <jpspoonhower@...>
Cc: ntms-hsmm@yahoogroups.com
Date: Wednesday, November 4, 2009, 8:12 AM

I picked up both the XR3 (1/2-price) and the Ionica 15 watt amps off of EBay yesterday. Since Ionica was a UK company, that is where I am finding the amps. The XR3 was from a fellow here in the States.

My potential applications are primarily emcomm-related . One is a possible Internet access system atop an old Western Union microwave tower/hut in North Wilmington (near the "highest point" in Delaware, which isn't saying much). The other is a mobile communications unit I'm building (http://www.armymars .net/ArmyMARS/ MCU/index. html). In both cases, I was looking at feeding either omnidirectional slot or 180 degree sector antennas with the amplified units and then using some "barefoot" XR3's with directional antennas for the remote nodes.

73s,

john

Charter Member of Geeks Ubiquitus

---------- --------- --------- -------

John K Scoggin, Jr. W3JKS/AAT3BF/ AAM3EDE/AAA9SL

US Army Military Affiliate Radio System

Delaware Gateway Station AAB3DE

Special Consultant - Technology

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“Old RADEF Officers never die, they simply decay exponentially…”

Chief Engineer

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http://www.armymars .net/ArmyMARS/ MCU/index. html

ARRL Assistant Section Manager – Delaware

Email: aat3bf@armymars. net

Telephone: (302) 451-5000

73s,

john

Charter Member of Geeks Ubiquitus

---------- --------- --------- -------

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http://www.armymars .net/ArmyMARS/ MCU/index. html

ARRL Assistant Section Manager – Delaware

Email: aat3bf@armymars. net

Telephone: (302) 451-5000

----- Original Message -----

From: "John Spoonhower" <jpspoonhower@ yahoo.com>

To: aat3bf@armymars. net

Sent: Wednesday, November 4, 2009 7:28:00 AM

Subject: Re: [ntms-hsmm] Ubiquiti XR-series Mini-PCI modems and External Power Amplifiers

John,

I too have looked at this hardware and considered such a project. What particular radios are you considering? What is your source for the amp? What is your vision for the end application; how will the system be used?

Maybe I can be of some help with some aspects of the project.

73, John, KC2DU

John Spoonhower

--- On Tue, 11/3/09, jks19714 <aat3bf@armymars. net> wrote:

From: jks19714 <aat3bf@armymars. net>

Subject: [ntms-hsmm] Ubiquiti XR-series Mini-PCI modems and External Power Amplifiers

To: ntms-hsmm@yahoogrou ps.com

Date: Tuesday, November 3, 2009, 3:13 PM

All --

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I plan to use DD-WRT software on the RouterBoard. Does anyone on the group know if

a) this is possible?

b) it has been tried before? or

c) how to assert a voltage to the sequencer when T/R switching is required?

Many thanks. If I am successful, I will certainly document the effort on my website (and perhaps to QST or QEX, for that matter).

73s,

john

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Chief Engineer

Mobile Communications Unit 37 (AAT3CAD/W3MCU)

http://www.armymars .net/ArmyMARS/ MCU/index. html

ARRL Assistant Section Manager – Delaware

Email: aat3bf@armymars. net

Telephone: (302) 451-5000

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1676. Re: [ntms-hsmm] Ubiquiti XR-series Mini-PCI modems and External Power Amplifiers

Yahoo group: DAWG-HSMM
Date: 2009-11-05 18:26:03 UTC
From: John K. Scoggin
Topic: 1669 Message: 1676

Yes, the tower site will (hopefully) be connected to the Internet. It will be connected via a 900-MHz Ubiquiti Networks XR9 to my station here at work (I work for PEPCO Holdings in Newark DE as a communications engineer) and possibly through a ham's WiFi connection who lives right next door to the tower. Fortunately, the XR2, XR3, and XR9 modems can be plugged into the same RouterStation board and powered over a local Ethernet cable to the hut at the bottom of the tower (with lightning protection!).

Users would be primarily fixed stations, with a few mobile or transportable stations. Antenna polarization will be horizontal, so that needs to be taken into consideration by mobile users. The tower already supports a very sophisticated Amateur TV repeater on 70 cm. with 23 and 13 cm video links to Philadelphia and Baltimore. My hope is to add an audio/video codec (MPEG-2) at the tower site (it uses an Intuitive Circuits ATV Controller, as does my mobile comm unit) and a VideoLan server at my station to provide IP Multicast-based ATV access over the 9cm network.

A lot of this is also being done within the Mobile Communications Unit which is under construction behind my office right now. Once I beat the bugs out of these systems, I hope to replicate them up at the tower site in North Wilmington as a start. We have some access to additional tower sites, but I would most likely attempt to convince the County EMA to fund them through DHS funding.

This 9cm equipment is a lot faster than 23cm D-Star if we can somehow solve the issues of relatively low power on the bare XR3 platform. I highly recommend the Radio Society of Great Britain's International Microwave Handbook as a source of information. It is much more complete and current than any of the ARRL publications that I have found. QEX has some good material occasionally, as does Funk Amateur (in German).

73s,

john

Charter Member of Geeks Ubiquitus

John K Scoggin, Jr. W3JKS/AAT3BF/AAM3EDE/AAA9SL

US Army Military Affiliate Radio System

Delaware Gateway Station AAB3DE

Special Consultant - Technology

Emergency Operations Officer – Delaware

“Old RADEF Officers never die, they simply decay exponentially…”

Chief Engineer

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ARRL Assistant Section Manager – Delaware

Email: aat3bf@armymars.net

Telephone: (302) 451-5000

----- Original Message -----
From: "John Spoonhower" <jpspoonhower@...>
To: ntms-hsmm@yahoogroups.com
Sent: Thursday, November 5, 2009 12:36:02 PM GMT -05:00 US/Canada Eastern
Subject: Re: [ntms-hsmm] Ubiquiti XR-series Mini-PCI modems and External Power Amplifiers

So the basic idea is to provide a hub arrangement with the tower at the center of the hub. The remotes would access the tower radio on 3.5 Ghz. Are the remotes mobile? Is the internet being made availble at the tower or elsewhere? If so, how will this be accomplished.
Sorry for all the questions...I am just trying to learn. Please correct me if my assumptions are wrong.
73,
KC2DU

John Spoonhower

--- On Wed, 11/4/09, John K. Scoggin < aat3bf@... > wrote:

From: John K. Scoggin < aat3bf@... >
Subject: Re: [ntms-hsmm] Ubiquiti XR-series Mini-PCI modems and External Power Amplifiers
To: "John Spoonhower" < jpspoonhower@yahoo.com >
Cc: ntms-hsmm@yahoogroups.com
Date: Wednesday, November 4, 2009, 8:12 AM

I picked up both the XR3 (1/2-price) and the Ionica 15 watt amps off of EBay yesterday. Since Ionica was a UK company, that is where I am finding the amps. The XR3 was from a fellow here in the States.

My potential applications are primarily emcomm-related . One is a possible Internet access system atop an old Western Union microwave tower/hut in North Wilmington (near the "highest point" in Delaware, which isn't saying much). The other is a mobile communications unit I'm building (http://www.armymars .net/ArmyMARS/ MCU/index. html). In both cases, I was looking at feeding either omnidirectional slot or 180 degree sector antennas with the amplified units and then using some "barefoot" XR3's with directional antennas for the remote nodes.

73s,

john

Charter Member of Geeks Ubiquitus

---------- --------- --------- -------

John K Scoggin, Jr. W3JKS/AAT3BF/ AAM3EDE/AAA9SL

US Army Military Affiliate Radio System

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73s,

john

Charter Member of Geeks Ubiquitus

---------- --------- --------- -------

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ARRL Assistant Section Manager – Delaware

Email: aat3bf@armymars. net

Telephone: (302) 451-5000

----- Original Message -----

From: "John Spoonhower" <jpspoonhower@ yahoo.com>

To: aat3bf@armymars. net

Sent: Wednesday, November 4, 2009 7:28:00 AM

Subject: Re: [ntms-hsmm] Ubiquiti XR-series Mini-PCI modems and External Power Amplifiers

John,

I too have looked at this hardware and considered such a project. What particular radios are you considering? What is your source for the amp? What is your vision for the end application; how will the system be used?

Maybe I can be of some help with some aspects of the project.

73, John, KC2DU

John Spoonhower

--- On Tue, 11/3/09, jks19714 <aat3bf@armymars. net> wrote:

From: jks19714 <aat3bf@armymars. net>

Subject: [ntms-hsmm] Ubiquiti XR-series Mini-PCI modems and External Power Amplifiers

To: ntms-hsmm@yahoogrou ps.com

Date: Tuesday, November 3, 2009, 3:13 PM

All --

I am embarking on a project involving interfacing a Ubiquiti Networks RouterStation, XR-3 Mini-PCI modem (9 cm OFDM) and an Ionica 15-watt solid state amplifier. I hope to interface this with a slot antenna to create a useful Internet access system locally and on-board my Mobile Communications Unit (see www.armymars. net for more info).

I plan to use DD-WRT software on the RouterBoard. Does anyone on the group know if

a) this is possible?

b) it has been tried before? or

c) how to assert a voltage to the sequencer when T/R switching is required?

Many thanks. If I am successful, I will certainly document the effort on my website (and perhaps to QST or QEX, for that matter).

73s,

john

Charter Member of Geeks Ubiquitus

---------- --------- --------- -------

John K Scoggin, Jr. W3JKS/AAT3BF/ AAM3EDE/AAA9SL

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[Non-text portions of this message have been removed]

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[Non-text portions of this message have been removed]

1677. Re: [ntms-hsmm] Re: Lasers

Yahoo group: DAWG-HSMM
Date: 2009-11-06 02:44:26 UTC
From: Ron Cole
Topic: 1668 Message: 1677

OK I'll bite, who makes LAN gear for 3400Mhz ?

Ron

--- On Thu, 11/5/09, jks19714 <aat3bf@...> wrote:

> From: jks19714 <aat3bf@...t>
> Subject: [ntms-hsmm] Re: Lasers
> To: ntms-hsmm@yahoogroups.com
> Date: Thursday, November 5, 2009, 7:47 AM
> From what I could find online, I got
> the impression that low-bandwidth messaging was practical
> using signal processing on non-Line-of-Sight paths. I
> have not seen any great use of optical systems other than
> point-to-point laser-based LOS systems, though.
>
> Right now, I'm concentrating on the new 9 cm wireless LAN
> equipment, as I believe that it will provide immediate
> results on a band we don't utilize very well. Use it
> or lose it!
>
> 73s,
> john W3JKS/AAT3BF/AAM3EDE/AAA9SL
>
> --- In ntms-hsmm@yahoogroups.com,
> "Dave" <dave@...> wrote:
> >
> > Yeah, it's too bad that the ARRL articles are
> typically old, like you said.
> > Thank you for writing; I couldn't find even this
> stuff! Don't know if it has
> > any value -maybe not- but if it could be tamed for use
> as a high-speed link
> > backbone the door gets wider.
> >
> > Dave
> > DM78qg // KA0SWT
> > /++++++++++++++++++++++++++++++++/
> >
> >
> >
> >
> >
> > -----Original Message-----
> > From: ntms-hsmm@yahoogroups.com
> [mailto:ntms-hsmm@yahoogroups.com]

> On Behalf
> > Of jks19714
> > Sent: Wednesday, November 04, 2009 07:59
> > To: ntms-hsmm@yahoogroups.com
> > Subject: [ntms-hsmm] Re: Lasers
> >
> >
> > The San Bernadino Microwave Society has apparently
> done some work on optical
> > communications within the past year:
> >
> > http://www.ham-radio.com/sbms/sd/opticalprojindx.htm
> > <http://www.ham-radio.com/sbms/sd/opticalprojindx.htm>
> >
> > K3PGP has been tinkering with optical communications
> for quite some
> > time:
> >
> > http://www.k3pgp.org/laser.htm <http://www.k3pgp.org/laser.htm>
> >
> > The information on the ARRL's Technical Information
> Service is very, very
> > old (as seems usual for those pages, unfortunately).
> >
> > 73s
> >
> > john W3JKS/AAT3BF/AAM3EDE/AAA9SL
> >
> >
> > --- In ntms-hsmm@yahoogroups.com,
> "davemynatt" <dave@> wrote:
> > >
> > > Any one doing any work with laser as opposed to
> wireless routers? Just
> > wondering if we have any experience.
> > >
> > > Dave
> > > KA0SWT
> > >
> >
> >
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> >
> > [Non-text portions of this message have been removed]
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> > ------------------------------------
> >
> > Yahoo! Groups Links

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> > ----------
> >
> >
> > No virus found in this outgoing message.
> > Checked by AVG - www.avg.com
> > Version: 8.5.424 / Virus Database: 270.14.49/2480 -
> Release Date: 11/04/09 07:37:00
> >
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> > [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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>
> ntms-hsmm-fullfeatured@yahoogroups.com
>
>
>

1678. Re: [ntms-hsmm] Re: Lasers

Yahoo group: DAWG-HSMM
Date: 2009-11-06 03:57:10 UTC
From: Robert Ellis
Topic: 1668 Message: 1678

On Nov 5, 2009, at 8:44 PM, Ron Cole wrote:

> OK I'll bite, who makes LAN gear for 3400Mhz ?

Ubiquiti networks:
http://www.ubnt.com/products/xr3.php

The above is for a mini pci card for use in things like the
routerstation (ubiquiti) and pcengines' alix boards.

fyi,
robert

>
> Ron
>
>
> --- On Thu, 11/5/09, jks19714 <aat3bf@...> wrote:
>
>> From: jks19714 <aat3bf@...>
>> Subject: [ntms-hsmm] Re: Lasers
>> To: ntms-hsmm@yahoogroups.com
>> Date: Thursday, November 5, 2009, 7:47 AM
>> From what I could find online, I got
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>> --- In ntms-hsmm@yahoogroups.com,
>> "Dave" <dave@...> wrote:
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>>> Yeah, it's too bad that the ARRL articles are
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>>> Thank you for writing; I couldn't find even this
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>>> any value -maybe not- but if it could be tamed for use
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>>> backbone the door gets wider.
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>>> DM78qg // KA0SWT
>>> /++++++++++++++++++++++++++++++++/
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>>> -----Original Message-----
>>> From: ntms-hsmm@yahoogroups.com
>> [mailto:ntms-hsmm@yahoogroups.com]
>> On Behalf
>>> Of jks19714
>>> Sent: Wednesday, November 04, 2009 07:59
>>> To: ntms-hsmm@yahoogroups.com
>>> Subject: [ntms-hsmm] Re: Lasers
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>>> The San Bernadino Microwave Society has apparently
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>>> communications within the past year:
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>>> http://www.ham-radio.com/sbms/sd/opticalprojindx.htm
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>>> The information on the ARRL's Technical Information
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>>> wondering if we have any experience.
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>>>> KA0SWT
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>>> [Non-text portions of this message have been removed]
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>>> Yahoo! Groups Links
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>>> No virus found in this outgoing message.
>>> Checked by AVG - www.avg.com
>>> Version: 8.5.424 / Virus Database: 270.14.49/2480 -
>> Release Date: 11/04/09 07:37:00
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>

1679. The Eagle Has Landed (adventures on 9cm)

Yahoo group: DAWG-HSMM
Date: 2009-11-11 20:16:54 UTC
From: jks19714
Topic: 1679 Message: 1679

The White Truck (Postal Service, as opposed to the famous Brown Truck) arrived with presents from far lands today. A pair of Ubiquiti XR-3 modems (presumably from China by way of California) and a pair of Ionica 9cm 15-watt amplifiers from the UK came to my workbench this morning.

One thing that I was rather surprised by -- the back of the Ionica amplifiers is covered in lead (as in Pb) foil! I suppose it is due to the fact that it is ductile and a reasonably good heat conductor, but I found myself immediately reaching for a pair of gloves. Not so much to keep my hands clean, but that Pb is not the most human-friendly element to get in your system - especially right before lunch. I guess it's the old nuke in me.

I suppose it could be worse -- at least it wasn't beryllium dust.

Anyway, just a note to anyone else considering the purchase of one of these 3400 MHz Ionica amps that they may come with a lead backing.

I have found some reasonably priced 3.4 GHz grid antennas at Streakwave Wireless (< $60 ea.) FYI. My challenge for the moment is loading the host processors in the two outdoor enclosures (Ubiquiti RouterStations) with OpenWRT. I have a few documents to read tonight before I brick, er, load these devices over the USB ports with their new firmware (although I don't know if I would have named a release of software "Kamakazi").

In the meantime, I have managed to EBay a 2-4 GHz 30dB directional coupler and an assortment of coaxial attenuators to do some testing.

Is anyone aware of a reasonably effective power meter kit suitable for this band?

I'm looking at buying an Analog Devices ADL5519 Evaluation Board for $150 to handle this task. It has TWO logarithmic detectors with 62dB of range which are rated from 1 MHz to 10 GHz, which is pretty amazing. Is anyone aware of anything simpler/easier/more cost-effective? The fact that this IC can measure such a nice range of frequencies and amplitudes (up to around -5 dBm, hence the attenuators) and both forward and reflected power simultaneously for less than an MFJ-269.... Wow.

Thanks for any insights or advice before I spend any more $$. I'm thinking of a QEX or QST article if this all (or even some) works.

:-)

73s,
john W3JKS/AAT3BF/AAM3EDE/AAA9SL

1680. Re: [ntms-hsmm] The Eagle Has Landed (adventures on 9cm)

Yahoo group: DAWG-HSMM
Date: 2009-11-11 20:59:12 UTC
From: Jay Nugent
Topic: 1679 Message: 1680

Greetings,

On Wed, 11 Nov 2009, jks19714 wrote:

>
> In the meantime, I have managed to EBay a 2-4 GHz 30dB directional
> coupler and an assortment of coaxial attenuators to do some testing.
>
> Is anyone aware of a reasonably effective power meter kit suitable for
> this band?
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> amplitudes (up to around -5 dBm, hence the attenuators) and both forward
> and reflected power simultaneously for less than an MFJ-269.... Wow.

Down East Microwave (http://www.downeastmicrowave.com) sells a small
microwave power meter for about $60 (as a kit) called the "ABPM". It's
good from 10KHz through 10 GHz. This device gives a "relative" power
output reading, not an exact wattage. So it's good for tuning for
greatest smoke kinda work. But check their catalog as they have a lot of
good stuff and may have something better suited to your needs.

Enjoy!
--- Jay WB8TKL
o Chair, ARRL Michigan Section "Digital Radio Group" (DRG)
[www.MI-DRG.org]

Train how you will Operate, and you will Operate how you were Trained.


```
+-----------------------------------------------------------------------+
| Jay Nugent jjn@... (734)484-5105 (734)649-0850/Cell |
| Nugent Telecommunications [www.nuge.com] |
| Internet Consulting/Linux SysAdmin/Engineering & Design/ISP Reseller |
| ISP Monitoring [www.ispmonitor.org] ISP & Modem Performance Monitoring |
| Web-Pegasus [www.webpegasus.com] Web Hosting/DNS Hosting/Shell Accts|
+-----------------------------------------------------------------------+
```


3:01pm up 11 days, 42 min, 3 users, load average: 0.03, 0.17, 0.32

1681. Re: [ntms-hsmm] The Eagle Has Landed (adventures on 9cm)

Yahoo group: DAWG-HSMM
Date: 2009-11-11 21:26:07 UTC
From: John K. Scoggin, Jr.
Topic: 1679 Message: 1681

Downeast. Thanks for the reminder, I had forgotten that design from W1GHZ. I found just the thing for another part of my " Project Truck " while I was on their site a moment ago (I had been looking for a 10 MHz distribution amp yesterday and they have one already assembled for $75!).

Well, I am only going to have the amplifier on one end of the link, most likely, so I was looking for something that gave me a good forward and reverse power reading in real-time and will be a permanent part of the system.

I bought two amps, one for the Mobile Communications Unit and the other for a potential 9 cm access point at a tower in North Wilmington. It will be a "poor man's D-Star" -- but I can buy two complete sets of equipment on 9 cm for less than what I paid for my ID-1, much less the price of an Icom repeater and controller! Granted there aren't any 3.4 GHz data systems in Delaware, but there aren't any D-Star repeaters either, on any band.

Anyway, thanks for the suggestion. It solved one (unrelated) problem and is now tucked away in my brain to rattle around for a bit. It might be a really good solution for the low-power (approx 500-600 mW) remote units which I'm planning -- the W1GHZ relative power meter is good enough to know if your reverse power is less than your forward power.

#-o

73s,

john

Charter Member of Geeks Ubiquitus

John K Scoggin, Jr. W3JKS/AAT3BF/AAM3EDE/AAA9SL

US Army Military Affiliate Radio System

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ARRL Assistant Section Manager – Delaware

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#-o

73s,

john

Charter Member of Geeks Ubiquitus

_____

John K Scoggin, Jr. W3JKS/AAT3BF/AAM3EDE/AAA9SL

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Email: aat3bf@armymars.net

Telephone: (302) 451-5000

----- Original Message -----
From: "Jay Nugent" <jjn@...>
To: ntms-hsmm@yahoogroups.com
Sent: Wednesday, November 11, 2009 3:59:12 PM
Subject: Re: [ntms-hsmm] The Eagle Has Landed (adventures on 9cm)

Greetings,

On Wed, 11 Nov 2009, jks19714 wrote:

>
> In the meantime, I have managed to EBay a 2-4 GHz 30dB directional
> coupler and an assortment of coaxial attenuators to do some testing.
>

> Is anyone aware of a reasonably effective power meter kit suitable for
> this band?
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> and reflected power simultaneously for less than an MFJ-269.... Wow.

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Enjoy!
--- Jay WB8TKL
o Chair, ARRL Michigan Section "Digital Radio Group" (DRG)
[www.MI-DRG.org]

Train how you will Operate, and you will Operate how you were Trained.


```
+-------------------------------------------------------+
| Jay Nugent jjn@... (734)484-5105 (734)649-0850/Cell |
| Nugent Telecommunications [www.nuge.com] |
| Internet Consulting/Linux SysAdmin/Engineering & Design/ISP Reseller |
| ISP Monitoring [www.ispmonitor.org] ISP & Modem Performance Monitoring |
| Web-Pegasus [www.webpegasus.com] Web Hosting/DNS Hosting/Shell Accts|
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3:01pm up 11 days, 42 min, 3 users, load average: 0.03, 0.17, 0.32

[Non-text portions of this message have been removed]

1682. Re: The Eagle Has Landed (adventures on 9cm)

Yahoo group: DAWG-HSMM
Date: 2009-11-12 05:53:12 UTC
From: kb9mwr
Topic: 1679 Message: 1682

As I mentioned privately before;
The PTT most likely will have to be tapped off the RF portion of
the circuit for the fastest reaction time.

Those amps look really nice, but it doesn't look like they have any
internal TX/RX switching. And that's going to be a problem at those
high frequencies and power levels.

1683. Re: The Eagle Has Landed (adventures on 9cm)

Yahoo group: DAWG-HSMM
Date: 2009-11-12 13:08:43 UTC
From: jks19714
Topic: 1679 Message: 1683

You are correct. I have not spotted a T/R switch anywhere on the amp. There is a tiny T/R switch buried somewhere in the metal can surrounding the XR-3 RF card. I'm hoping that Ubiquiti will help identify a suitable pin on the Mini-PCI interface so that I can assert the changeover in the proper order. I'm going to need pretty good isolation to avoid smoking the receiver, for sure.

Before I go poking around on the interior, I'm going to have to get them working without the amplifiers and any changes...

OpenWRT is a remarkable little piece of code! I'm still reading the docs.

73s,
john W3JKS/AAT3BF/AAM3EDE/AAA9SL

--- In ntms-hsmm@yahoogroups.com, "kb9mwr" <kb9mwr@...> wrote:
>
> As I mentioned privately before;
> The PTT most likely will have to be tapped off the RF portion of
> the circuit for the fastest reaction time.
>
> Those amps look really nice, but it doesn't look like they have any
> internal TX/RX switching. And that's going to be a problem at those
> high frequencies and power levels.
>

1684. Development Environment Suggestions

Yahoo group: DAWG-HSMM
Date: 2009-11-14 00:36:28 UTC
From: Steve W3AHL
Topic: 1684 Message: 1684

I would like to set up an OpenWRT image builder system, but have been away from Linux for about 8 years. Any suggestions on which Linux flavor to use or avoid? I would prefer a VM so I can use my laptop. Any guidance on VirtualBox versus VMware?

This will be a steep re-learning curve for me (too many years in management!)

I looked at the OpenWRT Wiki and forum topics related to this, but always value fellow hams' input....

Steve, W3AHL

1685. Re: [ntms-hsmm] Development Environment Suggestions

Yahoo group: DAWG-HSMM
Date: 2009-11-14 01:55:00 UTC
From: Mark J Culross
Topic: 1684 Message: 1685

Steve:

I will answer what might be a slightly different question than what you asked. We do 100% of our development & delivery against Red Hat Enterprise Linux (currently version 5.4) & have found it to be extremely stable as an OS (we have workstations & servers in our development lab that have been running continuously throughout the more than 3 years that we have been working the current project !!). Our project consists of three parts: an embedded PC-conpatible component, a client/server socket-based controller (with no gui, just sockets to connect to), & a GUI-based user interface. All three of them include a collection of common functional code that we developed, as well as their unique portions & all are built under & targeted to run on PC hardware running linux. We have been very successful so far & continue to deliver enhancements, as well as newly developed functionality enhancements.

The reason I say that I may not be answering your direct question is that I do not currently have any experience with OpenWRT. That kind of activity is on my wish list for the day when things get a little more sane at work & I might actually have some free time to tinker a bit !! I purchased a couple of WRT54GL routers a couple of years ago, but I have not even had time to take them out of the box, let alone load up new firmware & play !!

On a related note, I have setup dual-boot lpatop & desktop systems with several varieties of Windows (Win2K, WinXP, & Win7) & RHEL5. Install your Windows first, then install the linux & the grub boot-loader automatically supports selectively booting both OS's & RHEL5 lives very amicably with Windows !!

Good luck & have fun !!

Mark J Culross
KD5RXT

From: Steve W3AHL <w3ahl@att.net>
To: ntms-hsmm@yahoogroups.com
Sent: Fri, November 13, 2009 6:36:28 PM
Subject: [ntms-hsmm] Development Environment Suggestions

I would like to set up an OpenWRT image builder system, but have been away from Linux for about 8 years. Any suggestions on which Linux flavor to use or avoid? I would prefer a VM so I can use my laptop. Any guidance on VirtualBox versus VMware?

This will be a steep re-learning curve for me (too many years in management!)

I looked at the OpenWRT Wiki and forum topics related to this, but always value fellow hams' input....

Steve, W3AHL

[Non-text portions of this message have been removed]

1686. Re: [ntms-hsmm] Development Environment Suggestions

Yahoo group: DAWG-HSMM
Date: 2009-11-14 02:09:15 UTC
From: Glenn Currie
Topic: 1684 Message: 1686

I work on our HSMM-MESH code, which uses OpenWRT as a base,
using Ubuntu Linux.

One of the key differences between the different
distributions of Linux, is what directories they keep things in. If you have
been away from Linux for 8 years, you probably will not be troubled where
you "remember" key system files are kept.

That being said, any of the new distributions could be made to work.
You want to focus on a particular project, using Linux as a tool - not
recompiling the Linux kernel every day. So consider using a distribution
that lets you focus on your project, not the OS.

I find Ubuntu easy to load and maintain, and it runs all the tools I want
to use, just fine.

Ubuntu has a utility that will build you a bootable USB stick with room to
save files on a special partition on the USB stick. I use a 16GB USB stick
to run Ubuntu Linux on several of my machines that are new enough to boot
off a USB stick. It works like a champ.

I have no advice on a VM.
I would be interested in in what advice you get on a VM.
I don't need one now, but I also highly value the field
experience of other hams. You can read specs forever and
still not be sure what you are getting. Actual experience with
a tool is priceless and can save a lot of time and headaches.

Good luck with your project.

-Glenn
KD5MFW

--- On Fri, 11/13/09, Steve W3AHL <w3ahl@...> wrote:

From: Steve W3AHL <w3ahl@...>
Subject: [ntms-hsmm] Development Environment Suggestions
To: ntms-hsmm@yahoogroups.com
Date: Friday, November 13, 2009, 6:36 PM

I would like to set up an OpenWRT image builder system, but have been away from Linux for about 8 years. Any suggestions on which Linux flavor to use or avoid? I would prefer a VM so I can use my laptop. Any guidance on VirtualBox versus VMware?

This will be a steep re-learning curve for me (too many years in management!)

I looked at the OpenWRT Wiki and forum topics related to this, but always value fellow hams' input....

Steve, W3AHL

[Non-text portions of this message have been removed]

1687. New Group Member

Yahoo group: DAWG-HSMM
Date: 2009-11-18 05:08:35 UTC
From: Kilgore
Topic: 1687 Message: 1687

Yahoo! Groups Notification wrote:
> Hello,
>
> The following person would like to join the ntms-hsmm group:
> Email address: w5acm <andrew.macallister@...>
>
> Comment from user:
> We want to send "ham wifi" up on our next balloon launch - BLT-26. John
> K8OCL gave an excellent talk on high-speed ham comms during the QCWA
> 2009 Cruise.
>
>

1688. RE: [ntms-hsmm] Re: Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-11-18 06:08:57 UTC
From: WILLIAM WALLACE
Topic: 1537 Message: 1688

Kip on 9/23/09 you wrote

YOUR AUGUST PRESENTATION PPT WAS LINKED HERE help with your presentation.

Kip

On Wed, 2009-09-23 at 12:32 +0000, whwallacemo1 wrote:
> Group:
> FYI I have a presentation to the Boeing Employees Radio Club here in St. Louis in November on HSMM-MESH. Should be fun.. It is great that I could pull a lot of good PowerPoint slides off the Wiki and customize them. I have been working on a general "What is HSMM for a week or so prior to asking to give the presentation to them. There will be several aerospace engineers, mostly electronics. Maybe someone will turn up to help the project. No one knew what HSMM was when I asked at the last meeting on Monday, so I asked if I could do a presentation.
>
> Bill W

Presentation was last Monday and I generated a lot of interest. Since Boeing is a high tech military prime contractor, principally military fighter aircraft, the members of the club are all high tech engineers and they had a lot of great questions that showed they understood what I was saying and that they we interested in learning more and experimenting with the MESH technology.

Thanks for you help

Bill Wallace

[Non-text portions of this message have been removed]

1689. Re: Packet on WIFI

Yahoo group: DAWG-HSMM
Date: 2009-11-18 16:20:46 UTC
From: rddunnin@rockwellcollins.com
Topic: 1537 Message: 1689

When interacting with people in the Defense/Military Radio community, a term that is seen more often than MESH is MANET. HSMM networking is often MANET in its behavior.

Definition:

MANET stands for "Mobile Ad Hoc Network." A MANET is a type of ad hoc network that can change locations and configure itself on the fly. Because MANETS are mobile, they use wireless connections to connect to various networks. This can be a standard Wi-Fi connection, or another medium, such as a cellular or satellite transmission. [from http://www.techterms.com/definition/manet]

[Non-text portions of this message have been removed]

1690. Interesting Wireless Military Networking Applications

Yahoo group: DAWG-HSMM
Date: 2009-11-18 16:30:01 UTC
From: kc5qhh
Topic: 1690 Message: 1690

Interesting High Performance Networking Videos:

Tactical Targeting Network Technology (DARPA Video):
http://www.darpa.mil/ipto/Programs/ttnt/docs/TTNT.wmv

P5 Combat Training System (Cubic, Inc Video):
http://www.cubic.com/corp1/media/May_09/1269.4_P5Short.wmv

1691. Re: [ntms-hsmm] New Group Member

Yahoo group: DAWG-HSMM
Date: 2009-11-19 05:49:23 UTC
From: kevin asato
Topic: 1687 Message: 1691

>
Be interesting (though probably not realistic) to see if you can link into a commercial airliner with WiFi as part of its IFE (In-Flight Entertainment)! The last American Airlines flights I was on last week was offering WiFi on it's older MD-80s.
73,
kevin
kc6pob

> Comment from user:
> We want to send "ham wifi" up on our next balloon launch - BLT-26.
>
>

[Non-text portions of this message have been removed]

1692. HSMM-MESH Firmware File Extensions

Yahoo group: DAWG-HSMM
Date: 2009-11-19 17:54:47 UTC
From: Steve W3AHL
Topic: 1692 Message: 1692

Why do the firmware files on the AD5OO download page have a .sit extension, instead of .bin?

Are these Mac Stuffit files that I need to "unstuff"?

Steve, W3AHL

1693. Re: [ntms-hsmm] HSMM-MESH Firmware File Extensions

Yahoo group: DAWG-HSMM
Date: 2009-11-19 19:55:22 UTC
From: Rusty Haddock
Topic: 1692 Message: 1693

Steve W3AHL wrote:
>Why do the firmware files on the AD5OO download page have a .sit
>extension, instead of .bin?

The files do not have a .sit extension, at least on the
server they don't. Your browser maintains a MIME filetype
of application/x-macbinary for files that end with .bin.
It is your browser that is changing the .bin or adding
the .sit file extension.

>Are these Mac Stuffit files that I need to "unstuff"?

These are NOT Mac Stuffit files so "unstuff" is not needed.
Either remove the MIME filetype entry from your browser or
simply rename the downloaded file to end with .bin and you'll
be ready to use said file as in the instructions.

-Rusty-
--

```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

1694. Re: [ntms-hsmm] HSMM-MESH Firmware File Extensions

Yahoo group: DAWG-HSMM
Date: 2009-11-19 20:21:21 UTC
From: Rusty Haddock
Topic: 1692 Message: 1694

Rusty Haddock wrote:
>Steve W3AHL wrote:
> >Why do the firmware files on the AD5OO download page have a .sit
> >extension, instead of .bin?
>
>The files do not have a .sit extension, at least on the
>server they don't. Your browser maintains a MIME filetype
>of application/x-macbinary for files that end with .bin.

My apologies. The problem *IS* the web server. When David's server
delivers a .bin file it tells your browser this:

Content-Type: application/x-stuffit

and thusly your browser is acting accordingly. The server probably
needs to receive an "attitude adjustment" with regards to these files. :-)

>It is your browser that is changing the .bin or adding
>the .sit file extension.

This still holds true though but because the server told your browser
the file type, application/x-stuffit.

> >Are these Mac Stuffit files that I need to "unstuff"?
>
>These are NOT Mac Stuffit files so "unstuff" is not needed.

This still hold true too.

>Either remove the MIME filetype entry from your browser or

You should probably ignore this line.

>simply rename the downloaded file to end with .bin and you'll
>be ready to use said file as in the instructions.

But this still holds true as well.

I'm sorry I jumped the gun. The problem does not necessarily appear to
be with your browser, per se.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
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1695. HSMM-MESH Firmware File Extensions

Yahoo group: DAWG-HSMM
Date: 2009-11-19 20:49:49 UTC
From: James C. Duram
Topic: 1692 Message: 1695

Steve,

I had the same problem. I used another computer and it saved it as a bin file.

I dont know what it did it that way.

Jim, K8COP

1696. Re: HSMM-MESH Firmware File Extensions

Yahoo group: DAWG-HSMM
Date: 2009-11-19 21:12:06 UTC
From: Steve W3AHL
Topic: 1692 Message: 1696

Understood. I'll just change the extension to .bin. I can download .bin files from OpenWRT.org without any problems.

Thanks,

Steve, W3AHL

--- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> Rusty Haddock wrote:
> >Steve W3AHL wrote:
> > >Why do the firmware files on the AD5OO download page have a .sit
> > >extension, instead of .bin?
> >
> >The files do not have a .sit extension, at least on the
> >server they don't. Your browser maintains a MIME filetype
> >of application/x-macbinary for files that end with .bin.
>
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> delivers a .bin file it tells your browser this:
>
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>
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> needs to receive an "attitude adjustment" with regards to these files. :-)
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>
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>
> > >Are these Mac Stuffit files that I need to "unstuff"?
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> >These are NOT Mac Stuffit files so "unstuff" is not needed.
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> >Either remove the MIME filetype entry from your browser or
>
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> >be ready to use said file as in the instructions.
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```
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> be with your browser, per se.
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> -Rusty-
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>
```

1697. Using Ubiquiti Bullet for MESH Connection

Yahoo group: DAWG-HSMM
Date: 2009-11-19 22:37:04 UTC
From: Steve W3AHL
Topic: 1697 Message: 1697

I have the WRT54GL running the 0.3.1 mesh firmware and so does another local ham, so we can get familiar with HSMM-MESH.

And I have Ubuntu installed and am working through some issues with getting an OpenWRT image builder environment working.

The next step is to see if I can customize the firmware to use a Ubiquiti Bullet connected to one of the WRT54GL's LAN ports for the mesh Wi-Fi connection to extend the range.

Has anyone else looked into the feasibility of this yet?

I have a general idea of how to create another VLAN for the port the Bullet is plugged into. I haven't looked into what would need to be changed in OLSR.

I'm trying to get a few demo units running for range testing and proof of concept using the WRT54's, but would probably use something like a Mikrotik or other embedded board for the main nodes eventually.

If anyone knows of a major technical obstacle I'll encounter while pursuing this, I would appreciate your insights in advance!

Steve, W3AHL

1698. Re: [ntms-hsmm] Re: HSMM-MESH Firmware File Extensions

Yahoo group: DAWG-HSMM
Date: 2009-11-19 22:34:02 UTC
From: Rusty Haddock
Topic: 1692 Message: 1698

```
Steve W3AHL wrote:
>Understood. I'll just change the extension to .bin. I can
>download .bin files from OpenWRT.org without any problems.

OpenWrt.org website responds with a file type of
"application/octet-stream" for .bin files which is correct,
at least for these files for download into the access points.
David should tweak his server. :-)

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

1699. Re: [ntms-hsmm] Using Ubiquiti Bullet for MESH Connection

Yahoo group: DAWG-HSMM
Date: 2009-11-19 23:36:19 UTC
From: John K. Scoggin, Jr.
Topic: 1697 Message: 1699

Steve --

This should get you started:

http://wiki.ubnt.com/wiki/index.php/Bullet_Nano_mesh#How_to_configure_Ubiquiti_Bullet_2_or_Nano2.2FLoco_2_in_mesh_mode_.28BETA_firmware.29

I've got the hardware, but I'm waiting for my USB cables to the RouterStation end of the puzzle first (and I'm running the 3.4-GHz cards along with 900 MHz).

So many toys, so little time.

:)

(On a ++ note, Analog Device's ADL5519 Evaluation Board arrived today for my nascent 1 MHz to 10 GHz power meter project. Neat little board, a lot fewer support devices than I expected! The 1.5 - 4 GHz 30dB directional coupler and a handful of attenuators arrived, as well. I need some board-edge connectors and assorted SMA and N cables to rig this puppy up along with a little ARM7 board, serial LCD and keypad, power supply and shielded enclosure. Another virtual trip to DigiKey and/or Mouser in the next few days.)

73s,

john

Charter Member of Geeks Ubiquitus

John K Scoggin, Jr. W3JKS/AAT3BF/AAM3EDE/AAA9SL

US Army Military Affiliate Radio System

Delaware Gateway Station AAB3DE

Special Consultant - Technology

Emergency Operations Officer – Delaware

“Old RADEF Officers never die, they simply decay exponentially…”

Chief Engineer

Mobile Communications Unit 37 (AAT3CAD/W3MCU)

http://www.armymars.net/ArmyMARS/MCU/index.html

ARRL Assistant Section Manager – Delaware

Email: aat3bf@...

Telephone: (302) 451-5000

(On a ++ note, Analog Device's ADL5519 Evaluation Board arrived today for my nascent 1 MHz to 10 GHz power meter project. Neat little board, a lot fewer support devices than I expected! The 1.5 - 4 GHz 30dB directional coupler and a handful of attenuators arrived, as well. I need some board-edge connectors and assorted SMA and N cables to rig this puppy up along with a little ARM7 board, serial LCD and keypad, power supply and shielded enclosure. Another virtual trip to DigiKey and/or Mouser in the next few days.)

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http://www.armymars.net/ArmyMARS/MCU/index.html

ARRL Assistant Section Manager – Delaware

Email: aat3bf@...

Telephone: (302) 451-5000

----- Original Message -----
From: "Steve W3AHL" <w3ahl@...>
To: ntms-hsmm@yahoogroups.com
Sent: Thursday, November 19, 2009 5:37:04 PM
Subject: [ntms-hsmm] Using Ubiquiti Bullet for MESH Connection

I have the WRT54GL running the 0.3.1 mesh firmware and so does another local ham, so we can get familiar with HSMM-MESH.

And I have Ubuntu installed and am working through some issues with getting an OpenWRT image builder environment working.

The next step is to see if I can customize the firmware to use a Ubiquiti Bullet connected to one of the WRT54GL's LAN ports for the mesh Wi-Fi connection to extend the range.

Has anyone else looked into the feasibility of this yet?

I have a general idea of how to create another VLAN for the port the Bullet is plugged into. I haven't looked into what would need to be changed in OLSR.

I'm trying to get a few demo units running for range testing and proof of concept using the WRT54's, but would probably use something like a Mikrotik or other embedded board for the main nodes eventually.

If anyone knows of a major technical obstacle I'll encounter while pursuing this, I would appreciate your insights in advance!

Steve, W3AHL

[Non-text portions of this message have been removed]

1700. Re: [ntms-hsmm] Using Ubiquiti Bullet for MESH Connection

Yahoo group: DAWG-HSMM
Date: 2009-11-19 23:37:31 UTC
From: Glenn Currie
Topic: 1697 Message: 1700

You have some interesting pieces of hardware. I am not sure I understand what you are trying to do when you say "extend the range" - range of what? - the LAN side of the mesh connection?

You mention wanting to add OLSR to the Ubiquity Bullet device - are you trying to extend the range of the 54GL based mesh node you are plugged into? That is, extend the existing mesh network? or set up another mesh network cross linked with the mesh the 54GL is participating in?

Are your trying to use the Bullet as a mesh node or a Bi-Directional-Amp for the 54GL?

With flat land and not much RF in the path, the WRT54GL based mesh nodes with a 11dB omni antenna, connected to one antenna connector, 5 feet off the ground - no amp, can link at a distance of over 7 miles.

With gain directional antennas, and no amp we have made links of over 15 miles across down town Austin. At that point the curvature of the earth gets to be a problem on flat land, and the time of flight of the signal becomes longer than the expected ACK time for a packet on some equipment.

I am interested in your testing, but am not clear of what you are trying to do by attaching the Ubuiquiti Billet to the LAN side of a 54GL based mesh node. There are a number of different things you could do.

-Glenn
KD5MFW

--- On Thu, 11/19/09, Steve W3AHL <w3ahl@...> wrote:

From: Steve W3AHL <w3ahl@...>
Subject: [ntms-hsmm] Using Ubiquiti Bullet for MESH Connection
To: ntms-hsmm@yahoogroups.com
Date: Thursday, November 19, 2009, 4:37 PM

I have the WRT54GL running the 0.3.1 mesh firmware and so does another local ham, so we can get familiar with HSMM-MESH.

And I have Ubuntu installed and am working through some issues with getting an OpenWRT image builder environment working.

The next step is to see if I can customize the firmware to use a Ubiquiti Bullet connected to one of the WRT54GL's LAN ports for the mesh Wi-Fi connection to extend the range.

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If anyone knows of a major technical obstacle I'll encounter while pursuing this, I would appreciate your insights in advance!

Steve, W3AHL

[Non-text portions of this message have been removed]

1701. Re: Using Ubiquiti Bullet for MESH Connection

Yahoo group: DAWG-HSMM
Date: 2009-11-20 01:11:37 UTC
From: Steve W3AHL
Topic: 1697 Message: 1701

Thanks John. I had looked at OpenMesh, but didn't find their open source files on the first pass.

The RouterStation looks like a good way to go. I look forward to hearing more as you get it running.

I sure wish I had stopped by some weekend to see your MCU project while I was living in PA. But I enjoy the web updates.

Steve, W3AHL

--- In ntms-hsmm@yahoogroups.com, "John K. Scoggin, Jr." <aat3bf@...> wrote:
>
> Steve --
>
> This should get you started:
> http://wiki.ubnt.com/wiki/index.php/Bullet_Nano_mesh#How_to_configure_Ubiquiti_Bullet_2_or_Nano2.2FLoco_2_in_mesh_mode_.28BETA_firmware.29
>
> I've got the hardware, but I'm waiting for my USB cables to the RouterStation end of the puzzle firstÂ (and I'm running the 3.4-GHz cards along with 900 MHz).
>
>
> So many toys, so little time.
>
> :)
>
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>
> 73s,
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> john
>
> Charter Member of Geeks Ubiquitus
>
> _____
>
>
snip...

1702. Re: Using Ubiquiti Bullet for MESH Connection

Yahoo group: DAWG-HSMM
Date: 2009-11-20 02:05:58 UTC
From: Steve W3AHL
Topic: 1697 Message: 1702

Glen,

I would like to use the Bullet 2HP or 5HP in place of the WRT54's on-board radio to connect to the mesh network. It would plug into one of the LAN ports (it's not a bi-amp, but a 29dBm/800mw 1-port AP for $80).

The 18dBm/60mw output of the WRT54's radio isn't enough for the project I'm working on. I have a fair amount of experience with an HSMM bridged network in PA that used 400mw Senao cards and 14 dBi omni and 19dBi dish antennas and would like to stay in that range, even if it costs a little more. Ten miles across typical terrain and foliage was fairly reliable (if you could get LOS) at 5 Mbps rates. Much further and the link would downgrade to 1 Mbps or drop usually.

I need enough S/N margin to withstand heavy rain and wet foliage (we have a lot of trees here). We have access to a 1000' platform on a tower for one node, but the rest will be on 3-10 story commercial buildings in a two county area.

Radio Mobile coverage maps show that 600mw transmit power should work -- 60mw won't cover the longer links with enough margin to keep the speed up and there aren't good locations to put intermediate nodes to shorten the path.

Steve, W3AHL
--- In ntms-hsmm@yahoogroups.com, Glenn Currie <kd5mfw_7@...> wrote:
>
> You have some interesting pieces of hardware.Â I am not sure I understand what you
> are trying to do when you say "extend the range"Â - range of what? - the LAN side of
> the mesh connection?
>
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> the Ubuiquiti Billet to the LAN side of a 54GL based mesh node.Â There are a number of
> different things you could do.
>
> -Glenn
> KD5MFW
>
>
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> --- On Thu, 11/19/09, Steve W3AHL <w3ahl@...> wrote:
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> From: Steve W3AHL <w3ahl@...>
> Subject: [ntms-hsmm] Using Ubiquiti Bullet for MESH Connection
> To: ntms-hsmm@yahoogroups.com
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>
> I have the WRT54GL running the 0.3.1 mesh firmware and so does another local ham, so we
can get familiar with HSMM-MESH.

>
> And I have Ubuntu installed and am working through some issues with getting an OpenWRT
image builder environment working.
>
> The next step is to see if I can customize the firmware to use a Ubiquiti Bullet
connected to one of the WRT54GL's LAN ports for the mesh Wi-Fi connection to extend the
range.
>
> Has anyone else looked into the feasibility of this yet?
>
> I have a general idea of how to create another VLAN for the port the Bullet is plugged
into. I haven't looked into what would need to be changed in OLSR.
>
> I'm trying to get a few demo units running for range testing and proof of concept using
the WRT54's, but would probably use something like a Mikrotik or other embedded board for
the main nodes eventually.
>
> If anyone knows of a major technical obstacle I'll encounter while pursuing this, I would
appreciate your insights in advance!
>
> Steve, W3AHL
>
> [Non-text portions of this message have been removed]
>

1703. Re: [ntms-hsmm] Re: Using Ubiquiti Bullet for MESH Connection

Yahoo group: DAWG-HSMM
Date: 2009-11-20 02:55:32 UTC
From: Glenn Currie
Topic: 1697 Message: 1703

Steve,

Sounds good. I have some of the Ubuiquiti radios and have not had time to test them.

Please post any of your findings, limited time and money keep me from testing all the stuff I would like. Also, any field experience you have with the propogation on the different bands, corrolated with the weather (rain for example) would be interesting.

There are tools that caluculate the theoritical propogation. I would be interested to know chow closely the tools match field experience.

Much of the Wi-Fi related info posted to the Internet covers experience in quickly setting up a connection, but there is not much news of how the gear works under differing conditions and for extended periods of time.

We have stayed with the WRT54GL during initial firmware development in that it took all our resources to get some of the key features we wanted in. We hope to cross port the firmware to other platforms as resources allow.

Discount electronics here in Austin sells a 1 watt 2.4GHz BDA. One of our HSMM SIG members runs a FCC RF compliance lab and tested the device.
It works fine and runs cool at 1 watt. Unfortunately it runs on 6 VDC. Not too andy for portable use.

It sells for $69.00. I have a couple of them and they seem to work as expected.

Keep us posted as to how the Bullet works. I almost ordered one, but have too much untested gear on the bench already.

-Glenn
KD5MFW

--- On Thu, 11/19/09, Steve W3AHL <w3ahl@...> wrote:

From: Steve W3AHL <w3ahl@...>
Subject: [ntms-hsmm] Re: Using Ubiquiti Bullet for MESH Connection
To: ntms-hsmm@yahoogroups.com
Date: Thursday, November 19, 2009, 8:05 PM

Glen,

I would like to use the Bullet 2HP or 5HP in place of the WRT54's on-board radio to connect to the mesh network. It would plug into one of the LAN ports (it's not a bi-amp, but a 29dBm/800mw 1-port AP for $80).

The 18dBm/60mw output of the WRT54's radio isn't enough for the project I'm working on. I have a fair amount of experience with an HSMM bridged network in PA that used 400mw Senao cards and 14 dBi omni and 19dBi dish antennas and would like to stay in that range, even if it costs a little more. Ten miles across typical terrain and foliage was fairly reliable (if you could get LOS) at 5 Mbps rates. Much further and the link would downgrade to 1 Mbps or drop usually.

I need enough S/N margin to withstand heavy rain and wet foliage (we have a lot of trees here). We have access to a 1000' platform on a tower for one node, but the rest will be on 3-10 story commercial buildings in a two county area.

Radio Mobile coverage maps show that 600mw transmit power should work -- 60mw won't cover the longer links with enough margin to keep the speed up and there aren't good locations to put intermediate nodes to shorten the path.

Steve, W3AHL

--- In ntms-hsmm@yahoogrou ps.com, Glenn Currie <kd5mfw_7@.. .> wrote:

>

> You have some interesting pieces of hardware.Â I am not sure I understand what you

> are trying to do when you say "extend the range"Â - range of what? - the LAN side of

> the mesh connection?

>

> You mention wanting to add OLSR to the Ubiquity Bullet device - are you trying to

> extend the range of the 54GL based mesh node you are plugged into?Â That is, extend

> the existing mesh network?Â or set up another mesh network cross linked with the

> mesh the 54GL is participating in?

>

> Are your trying to use the Bullet as a mesh node or a Bi-Directional- Amp for the 54GL?

>

> With flat land and not much RF in the path, the WRT54GL based mesh nodes with

> a 11dB omni antenna,Â connected to one antenna connector, 5 feet off the ground - no amp, can link at a distance of over 7 miles.

>

> With gain directional antennas, and no amp we have made links of over 15 miles across

> down town Austin.Â At that point the curvature of the earth gets to be a problem on

> flat land, and the time of flight of the signal becomes longer than the expected ACK

> time for a packet on some equipment.

>

> I am interested in your testing, but am not clear of what you are trying to do by attaching

> the Ubuiquiti Billet to the LAN side of a 54GL based mesh node.Â There are a number of

> different things you could do.

>

> -Glenn

> KD5MFW

>

>

>

> --- On Thu, 11/19/09, Steve W3AHL <w3ahl@...> wrote:

>

> From: Steve W3AHL <w3ahl@...>

> Subject: [ntms-hsmm] Using Ubiquiti Bullet for MESH Connection

> To: ntms-hsmm@yahoogrou ps.com

> Date: Thursday, November 19, 2009, 4:37 PM

>

> I have the WRT54GL running the 0.3.1 mesh firmware and so does another local ham, so we can get familiar with HSMM-MESH.

>

> And I have Ubuntu installed and am working through some issues with getting an OpenWRT image builder environment working.

>

> The next step is to see if I can customize the firmware to use a Ubiquiti Bullet connected to one of the WRT54GL's LAN ports for the mesh Wi-Fi connection to extend the range.

>

> Has anyone else looked into the feasibility of this yet?

>

> I have a general idea of how to create another VLAN for the port the Bullet is plugged into. I haven't looked into what would need to be changed in OLSR.

>

> I'm trying to get a few demo units running for range testing and proof of concept using the WRT54's, but would probably use something like a Mikrotik or other embedded board for the main nodes eventually.

>

> If anyone knows of a major technical obstacle I'll encounter while pursuing this, I would appreciate your insights in advance!

>

> Steve, W3AHL

>

> [Non-text portions of this message have been removed]

>

[Non-text portions of this message have been removed]

1704. Bridging LAN and Wi-Fi

Yahoo group: DAWG-HSMM
Date: 2009-11-24 03:23:25 UTC
From: Steve W3AHL
Topic: 1704 Message: 1704

To simplify testing I would like to allow computers on one router's LAN access to computers on another router's LAN across the Wi-Fi mesh connection.

Having led a sheltered life with network engineers taking care of all these details, my initial attempts haven't gone well. I'm off to the library tomorrow to stock up on Linux networking references!

I've looked at info on the OpenWRT Wiki and Forum, but always manage to lock myself out of the LAN port totally and have to reflash.

I'm not concerned about security at this point. Each router would have its LAN in a unique subnet in 172.27.x.0/24.

Surely someone has done this already....

Steve, W3AHL

1705. Bullet 2HP

Yahoo group: DAWG-HSMM
Date: 2009-12-12 13:22:09 UTC
From: k0yr_tr
Topic: 1705 Message: 1705

I have a bullet 2HP and would like to set it up for a mesh network. If someone could help me walk it through I would appreciate it.
Tom, K0YR

1706. Re: Linux distribution specifically for HSMM and amateur TCP/IP

Yahoo group: DAWG-HSMM
Date: 2009-12-19 23:22:47 UTC
From: wa3ite
Topic: 1203 Message: 1706

So, what's the status on this project? Website looks somewhat stale...

--Brian

--- In ntms-hsmm@yahoogroups.com, "kf4yfd" <akz3r0@...> wrote:
>
>
> Today Outernet Server, beta 1 was released.
>
> To begin though... what is the Outernet?
> The outernet is like the internet, just without the wires.
> In short TCP/IP over radio, but easy to use and easy to learn.
> At least that is the goal of the project...
>
> It is a custom linux distribution that installs preconfigured and
> offers many useful features to an amateur TCP/IP network.

1707. TAPR PSR Jounal Fall Issue Now On-line & TAPR on Twitter

Yahoo group: DAWG-HSMM
Date: 2009-12-20 22:37:04 UTC
From: Mark Thompson
Topic: 1707 Message: 1707

TAPR's PSR Journal Fall Issue is Now On-Line at:

http://www.tapr.org/psr/psr109.pdf

All PSR Issues Are Now Online
By Stan Horzepa , WA1LOU

All current and back issues of TAPR's quarterly
newsletter, Packet Status Register (PSR), are now
online and accessible at www.tapr.org/psr
The newsletters are in Adobe Acrobat format.
Thanks to John Ackermann, N8UR, Phil Karn,
KA9Q, John Koster, W9DDD, and Darryl Smith,
VK2TDS, for helping to fill in the gaps in the
collection.

By the way, we can automatically notify you by
e-mail whenever a new issue of PSR is available for
downloading by signing up here:
https://www.tapr.org/cgi-bin/mailman/listinfo/
psr-announce

And we can automatically e-mail new issues of
PSR to you whenever a new issue is available by
signing up here:
https://www.tapr.org/cgi-bin/mailman/listinfo/
psr-pdf
###

TAPR Twitter

TAPR set-up a Twitter account for TAPR
to keep TAPR members and digital enthusiasts
aware of TAPR’s events & activities.

The TAPR Twitter account can be accessed
at: http://www.twitter.com/taprdigital

[Non-text portions of this message have been removed]

1708. Call for TAPR PSR Journal Articles

Yahoo group: DAWG-HSMM
Date: 2009-12-27 03:43:26 UTC
From: Mark Thompson
Topic: 1708 Message: 1708

----- Forwarded Message ----
From: Stan Horzepa <stanzepa@sbcglobal..net>
To: tapr-announce@...
Sent: Sun, December 20, 2009 7:54:27 AM
Subject: [tapr-announce] write for PSR

We are now seeking articles for the next issue of TAPR's quarterly newsletter, Packet Status Register (PSR).

All contributions are welcome, so if you have anything for the newsletter, please e-mail what you have to me.

The deadline is January 15.

Thank you and 73,

Stan Horzepa, WA1LOU
PSR Editor

All PSR Issues Are Now Online
By Stan Horzepa , WA1LOU

All current and back issues of TAPR's quarterly newsletter, Packet Status Register (PSR), are now online and accessible at www.tapr.org/psr
The newsletters are in Adobe Acrobat format.
Thanks to John Ackermann, N8UR, Phil Karn, KA9Q, John Koster, W9DDD, and Darryl Smith, VK2TDS, for helping to fill in the gaps in the collection.

By the way, we can automatically notify you by e-mail whenever a new issue of PSR is available for downloading by signing up here:
https://www.tapr.org/cgi-bin/mailman/listinfo/psr-announce

And we can automatically e-mail new issues of PSR to you whenever a new issue is available by signing up here:
https://www.tapr.org/cgi-bin/mailman/listinfo/psr-pdf
###

TAPR Twitter

TAPR set-up a Twitter account for TAPR to keep TAPR members and digital enthusiasts

aware of TAPR’s events & activities.

The TAPR Twitter account can be accessed
at: http://www.twitter.com/taprdigital

[Non-text portions of this message have been removed]

1709. HSMM Seminar - February 6, 2010

Yahoo group: DAWG-HSMM
Date: 2010-01-04 03:28:38 UTC
From: Kipton Moravec
Topic: 1709 Message: 1709

I will be holding a HSMM Seminar on February 6, 2010 at the Lucas Fire Station Training Room from 8:00 a.m. to 5:00 p.m. The Annex is the building north of the Fire Station, 165 Country Club Road, Lucas, TX 75002

This seminar will cover changing the software in WRT54GL routers to make them work in a MESH, and the other hardware and configuration necessary.

The seminar will be in 3 parts. The first part will be an overview of HSMM. The second part will be about loading the software into the router. The third part will be about special configuration of the router.

We hope to have a MESH node on the K5PRK Repeater site operational (weather permitting) before the seminar, and we will be able to see if we can hit it from the Lucas Fire Station.

The Training room is much larger than the venue for the last training, but I will have to limit the number of people to 30 because you are encouraged to bring your computer and router so you can leave with a working mesh node. Anyone with a valid Amateur Radio License is welcome to attend.

If you would like to attend please email Kipton Moravec (AE5IB)
kip@...
with your Name, Call Sign, and if you plan to bring a computer and router for the programming and configuration part of the seminar.

See you on Saturday February, 6.

Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1710. FS: Omni Directional Outdoor 2.4 Ghz

Yahoo group: DAWG-HSMM
Date: 2010-01-07 23:11:01 UTC
From: James C. Duram
Topic: 1710 Message: 1710

Came across this from another list:

Jim, K8COP

Applications: 802.11g, 802.11n, Wireless LAN, Bluetooth, Public Wireless HOTSPOT, WiFi.

Frequency: 2400-2500 Mhz
Gain: from 8 to 12 dBi
Polarization: Vertical
Vertical Beam Width: 8 degrees
Horizontal Beam Width 360 degrees
Weight 3.3 lbs.
Length: 40.5 inches
comes w/ integrated N-Female Connector.

14 each unattached
22 each attached to poles (I will have removed)
36 total

PRICE: $60 each or whole lot for $2100. All poles are USED.

Meg Schell

mschell12@...

[Non-text portions of this message have been removed]

1711. FS: Omni Directional Outdoor 2.4 Ghz

Yahoo group: DAWG-HSMM
Date: 2010-01-08 13:36:45 UTC
From: James C. Duram
Topic: 1711 Message: 1711

Just received:

Jim Duram

I lowered the price $10/each to $50.
M. Schell

Applications: 802.11g, 802.11n, Wireless LAN, Bluetooth, Public Wireless HOTSPOT, WiFi.

Frequency: 2400-2500 Mhz
Gain: from 8 to 12 dBi
Polarization: Vertical
Vertical Beam Width: 8 degrees
Horizontal Beam Width 360 degrees
Weight 3.3 lbs.
Length: 40.5 inches
comes w/ integrated N-Female Connector.

14 each unattached
22 each attached to poles (I will have removed)
36 total

PRICE: $60 each or whole lot for $2100. All poles are USED.

Meg Schell

[Non-text portions of this message have been removed]

1712. New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-16 05:11:59 UTC
From: -
Topic: 1712 Message: 1712

I was directed to this group by a member of the Net44 TCP/IP email list. He said you all were working on or had a mesh wet54 system up and running. Is there a link to more info on this and a description of your current system.

I was involved in early packet and contributed to the early JNOS project. As most early packeteers I have been away from it for awhile due to inactivity but looking to build a high-speed network in the Philadelphia area.

73 Doug, WA3DSP

1713. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-16 07:04:48 UTC
From: Glenn Currie
Topic: 1712 Message: 1713

We have an active HSMM SIG in Austin that includes hams in the NTMS
and Roadrunner Microwave Group.

We are working to provide a general web page and hope to have it up soon.
We are doing all we can to support people interested in our work. For now,
I will send you some information off line. It is the best I can do at the moment.

As soon as we get the web page on line, I will make a general announcement.

73's

-Glenn
kd5mfw@arrl.net

--- On Fri, 1/15/10, - <dsc3507@...> wrote:

From: - <dsc3507@yahoo.com>
Subject: [ntms-hsmm] New togroup, need info
To: ntms-hsmm@yahoogroups.com
Date: Friday, January 15, 2010, 11:11 PM

I was directed to this group by a member of the Net44 TCP/IP email list. He said you all
were working on or had a mesh wet54 system up and running. Is there a link to more info on
this and a description of your current system.

I was involved in early packet and contributed to the early JNOS project. As most early
packeteers I have been away from it for awhile due to inactivity but looking to build a
high-speed network in the Philadelphia area.

73 Doug, WA3DSP

[Non-text portions of this message have been removed]

1714. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-16 13:41:57 UTC
From: Kipton Moravec
Topic: 1712 Message: 1714

On Sat, 2010-01-16 at 05:11 +0000, - wrote:
> I was directed to this group by a member of the Net44 TCP/IP email list. He said you all were working on or had a mesh wet54 system up and running. Is there a link to more info on this and a description of your current system.
>
> I was involved in early packet and contributed to the early JNOS project. As most early packeteers I have been away from it for awhile due to inactivity but looking to build a high-speed network in the Philadelphia area.
>
> 73 Doug, WA3DSP
>

We are having a class in Lucas, (12 miles from Plano, north of Dallas) on February 6 all day. It will hopefully tell you all you need to know - from theory to practice.

I will cover what the mesh is, what hardware, what software, configuration, etc.
You are encouraged to bring your WRT54GL (or WRT54G Version <= 4) to program it in the class. Bring a computer to load the SW. If you have a Linux computer the last session will show you how to compile the source code, so bring the Linux computer if you want to do that also.

If you can make it let me know. I have to limit the class to 30 and have 22 signed up so far.

If the weather turns good, I would like to get our first mesh node 180 Feet above ground level, at the PARK repeater site before the class. We may or may not be able to hit it from Lucas. There is a ridge in between.

Kip
kip@...

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1715. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-16 16:22:05 UTC
From: Mr Doug -
Topic: 1712 Message: 1715

Kip,

I am in Philadelphia and I doubt I will be able to make a class in TX. I am a technical person and really do not need a class but rather written instructions and code. Is this going to be available?

Doug

From: Kipton Moravec <kip@...>
To: ntms-hsmm@yahoogroups.com
Sent: Sat, January 16, 2010 8:41:57 AM
Subject: Re: [ntms-hsmm] New togroup, need info

On Sat, 2010-01-16 at 05:11 +0000, - wrote:
> I was directed to this group by a member of the Net44 TCP/IP email list. He said you all were working on or had a mesh wet54 system up and running. Is there a link to more info on this and a description of your current system.
>
> I was involved in early packet and contributed to the early JNOS project. As most early packeteers I have been away from it for awhile due to inactivity but looking to build a high-speed network in the Philadelphia area.
>
> 73 Doug, WA3DSP
>

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I will cover what the mesh is, what hardware, what software, configuration, etc.
You are encouraged to bring your WRT54GL (or WRT54G Version <= 4) to program it in the class. Bring a computer to load the SW. If you have a Linux computer the last session will show you how to compile the source code, so bring the Linux computer if you want to do that also.

If you can make it let me know. I have to limit the class to 30 and have 22 signed up so far.

If the weather turns good, I would like to get our first mesh node 180 Feet above ground level, at the PARK repeater site before the class. We may or may not be able to hit it from Lucas. There is a ridge in between.

Kip
kip@...

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

[Non-text portions of this message have been removed]

1716. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-16 16:29:29 UTC
From: Kipton Moravec
Topic: 1712 Message: 1716

Yes I will post the slides. And the SW.

Kip

On Sat, 2010-01-16 at 08:22 -0800, Mr Doug - wrote:
> Kip,
>
> I am in Philadelphia and I doubt I will be able to make a class in TX. I am a technical person and really do not need a class but rather written instructions and code. Is this going to be available?
>
> Doug
>
>
>
>
> _____
> From: Kipton Moravec <kip@...>
> To: ntms-hsmm@yahoogroups.com
> Sent: Sat, January 16, 2010 8:41:57 AM
> Subject: Re: [ntms-hsmm] New togroup, need info
>
>
> On Sat, 2010-01-16 at 05:11 +0000, - wrote:
> > I was directed to this group by a member of the Net44 TCP/IP email list. He said you all were working on or had a mesh wet54 system up and running. Is there a link to more info on this and a description of your current system.
> >
> > I was involved in early packet and contributed to the early JNOS project. As most early packeteers I have been away from it for awhile due to inactivity but looking to build a high-speed network in the Philadelphia area.
> >
> > 73 Doug, WA3DSP
> >
>
> We are having a class in Lucas, (12 miles from Plano, north of Dallas)
> on February 6 all day. It will hopefully tell you all you need to know -
> from theory to practice.
>
> I will cover what the mesh is, what hardware, what software,
> configuration, etc.
> You are encouraged to bring your WRT54GL (or WRT54G Version <= 4) to
> program it in the class. Bring a computer to load the SW. If you have a
> Linux computer the last session will show you how to compile the source
> code, so bring the Linux computer if you want to do that also.

>
> If you can make it let me know. I have to limit the class to 30 and have
> 22 signed up so far.
>
> If the weather turns good, I would like to get our first mesh node 180
> Feet above ground level, at the PARK repeater site before the class. We
> may or may not be able to hit it from Lucas. There is a ridge in
> between.
>
> Kip
> kip@...
>
--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1717. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-16 16:34:15 UTC
From: Todd Caldwell
Topic: 1712 Message: 1717

Hi Kip,

I'm on the list for the class and have my WRT54GL and dual boot laptop in hand.

I was wondering if it will be any impediment to the what you have planned at the class if the router already has dd-wrt installed ?

Also, is there a relatively easy way to make a snapshot of the configuration as we'll set up in the class so it can be quickly restored later ? I anticipate using my router for other experimentation from time to time and would like to have the capability to store various configurations.

Thanks and 73s

Todd Caldwell
KB5ULN

Kipton Moravec wrote:
> On Sat, 2010-01-16 at 05:11 +0000, - wrote:
>
> We are having a class in Lucas, (12 miles from Plano, north of Dallas)
> on February 6 all day. It will hopefully tell you all you need to know -
> from theory to practice.
>
> I will cover what the mesh is, what hardware, what software,
> configuration, etc.
> You are encouraged to bring your WRT54GL (or WRT54G Version <= 4) to
> program it in the class. Bring a computer to load the SW. If you have a
> Linux computer the last session will show you how to compile the source
> code, so bring the Linux computer if you want to do that also.
>
> If you can make it let me know. I have to limit the class to 30 and have
> 22 signed up so far.
>
> If the weather turns good, I would like to get our first mesh node 180
> Feet above ground level, at the PARK repeater site before the class. We
> may or may not be able to hit it from Lucas. There is a ridge in
> between.
>
> Kip
> kip@...
>
>

1718. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-16 18:28:22 UTC
From: Glenn Currie
Topic: 1712 Message: 1718

Doug,

I attempted to send you my Hamcom presentation as well as a pointer to the HSMM-MESH firmware and documentation. Did you receive the information?

-Glenn
kd5mfw@...

--- On Sat, 1/16/10, Mr Doug - <dsc3507@yahoo.com> wrote:

From: Mr Doug - <dsc3507@...>
Subject: Re: [ntms-hsmm] New togroup, need info
To: ntms-hsmm@yahoogroups.com
Date: Saturday, January 16, 2010, 10:22 AM

Kip,

I am in Philadelphia and I doubt I will be able to make a class in TX. I am a technical person and really do not need a class but rather written instructions and code. Is this going to be available?

Doug

---------- --------- --------- --

From: Kipton Moravec <kip@...>

To: ntms-hsmm@yahoogrou ps.com

Sent: Sat, January 16, 2010 8:41:57 AM

Subject: Re: [ntms-hsmm] New togroup, need info

On Sat, 2010-01-16 at 05:11 +0000, - wrote:

> I was directed to this group by a member of the Net44 TCP/IP email list. He said you all were working on or had a mesh wet54 system up and running. Is there a link to more info on this and a description of your current system.

>

> I was involved in early packet and contributed to the early JNOS project. As most early packeteers I have been away from it for awhile due to inactivity but looking to build a high-speed network in the Philadelphia area.

>

> 73 Doug, WA3DSP

>

We are having a class in Lucas, (12 miles from Plano, north of Dallas) on February 6 all day. It will hopefully tell you all you need to know - from theory to practice.

I will cover what the mesh is, what hardware, what software, configuration, etc.

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If you can make it let me know. I have to limit the class to 30 and have 22 signed up so far.

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Kip

kip@...

--

Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."

--Mark Twain

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1719. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-16 19:13:05 UTC
From: Mr Doug -
Topic: 1712 Message: 1719

Hi Glenn,

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I do have a few questions. If these are answered in the PDF then you can just reference that....

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- Has there been crystal changes in your group in the WRT54 to make the channels all fall in the ham band?

- Is anyone running higher power with amps etc.?

- How are you handling connection to the Internet? Issues of content legality would seem to be an issue. Maybe you are not Internet connecting?

These are a few things that came to mind. I am sur eI will have a ton more questions. Maybe you can start a FAQ!

73 Doug

From: Glenn Currie <kd5mfw_7@...>
To: ntms-hsmm@yahoogroups.com
Sent: Sat, January 16, 2010 1:28:22 PM
Subject: Re: [ntms-hsmm] New togroup, need info

Doug,

I attempted to send you my Hamcom presentation as well as a pointer to the HSMM-MESH firmware and documentation. Did you receive the information?

-Glenn
kd5mfw@arrl. net

--- On Sat, 1/16/10, Mr Doug - <dsc3507@yahoo. com> wrote:

From: Mr Doug - <dsc3507@yahoo. com>
Subject: Re: [ntms-hsmm] New togroup, need info
To: ntms-hsmm@yahoogrou ps.com
Date: Saturday, January 16, 2010, 10:22 AM

Kip,

I am in Philadelphia and I doubt I will be able to make a class in TX. I am a technical person and really do not need a class but rather written instructions and code. Is this going to be available?

Doug

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From: Kipton Moravec <kip@...>

To: ntms-hsmm@yahoogrou ps.com

Sent: Sat, January 16, 2010 8:41:57 AM

Subject: Re: [ntms-hsmm] New togroup, need info

On Sat, 2010-01-16 at 05:11 +0000, - wrote:

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We are having a class in Lucas, (12 miles from Plano, north of Dallas)

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I will cover what the mesh is, what hardware, what software,

configuration, etc.

You are encouraged to bring your WRT54GL (or WRT54G Version <= 4) to

program it in the class. Bring a computer to load the SW. If you have a

Linux computer the last session will show you how to compile the source

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1720. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-16 20:17:01 UTC
From: Glenn Currie
Topic: 1712 Message: 1720

Doug,

Most of your questions should be answered in the documentation. The PDF file
is a copy of my Hamcom presentation last summer and provides an overview
of the project. I sent a URL to the firmware and detailed info on the firmware.

We are on our third version of custom, ham oriented firmware for the WRT54GL.

Other questions answered in context below.

-Glenn

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From: Mr Doug - <dsc3507@...>
Subject: Re: [ntms-hsmm] New togroup, need info
To: ntms-hsmm@yahoogroups.com
Date: Saturday, January 16, 2010, 1:13 PM

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1721. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-16 21:35:27 UTC
From: Mr Doug -
Topic: 1712 Message: 1721

Glenn,

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73 Doug

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From: Glenn Currie <kd5mfw_7@...>
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1722. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-16 23:55:15 UTC
From: Glenn Currie
Topic: 1712 Message: 1722

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From: Mr Doug - <dsc3507@...>
Subject: Re: [ntms-hsmm] New togroup, need info
To: ntms-hsmm@yahoogroups.com
Date: Saturday, January 16, 2010, 3:35 PM

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1723. Re: New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-17 04:31:10 UTC
From: w4rfj
Topic: 1712 Message: 1723

Boy I would like to get at that info myself!!! Any way I can get a copy Kip or Doug??

Best Regards,

Roger W4RFJ

--- In ntms-hsmm@yahoogroups.com, Glenn Currie <kd5mfw_7@...> wrote:
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> 73 Doug
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> From: Glenn Currie <kd5mfw_7@yahoo. com>
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> To: ntms-hsmm@yahoogrou ps.com

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> Sent: Sat, January 16, 2010 1:28:22 PM
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> Subject: Re: [ntms-hsmm] New togroup, need info
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>
> kd5mfw@arrl. net
>
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> Kip,
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> From: Kipton Moravec <kip@...>
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> To: ntms-hsmm@yahoogrou ps.com
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> > 73 Doug, WA3DSP
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> We are having a class in Lucas, (12 miles from Plano, north of Dallas)
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>
> on February 6 all day. It will hopefully tell you all you need to know -
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> from theory to practice.
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> I will cover what the mesh is, what hardware, what software,
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> You are encouraged to bring your WRT54GL (or WRT54G Version <= 4) to
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> Linux computer the last session will show you how to compile the source
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> Kip
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> kip@...
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> Kipton Moravec AE5IB .- . ... -...
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> "Always do right; this will gratify some people and astonish the rest."
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> --Mark Twain
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1724. Re: [ntms-hsmm] Re: New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-17 05:35:16 UTC
From: icra@galaxynet.com
Topic: 1712 Message: 1724

> Boy I would like to get at that info myself!!! Any way I can get a
> copy Kip or Doug??
>
Add me to the list.....

Mel
N7OKL

1725. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-17 06:08:58 UTC
From: Mr Doug -
Topic: 1712 Message: 1725

Glenn,

Another question. If one were buying new 54's is there any advantage in this application to purchase the GS or is the GL adequate?

Doug

_____
From: Glenn Currie <kd5mfw_7@...>
To: ntms-hsmm@yahoogroups.com
Sent: Sat, January 16, 2010 3:17:01 PM
Subject: Re: [ntms-hsmm] New togroup, need info

Doug,

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is a copy of my Hamcom presentation last summer and provides an overview
of the project. I sent a URL to the firmware and detailed info on the firmware.

We are on our third version of custom, ham oriented firmware for the WRT54GL.

Other questions answered in context below.

-Glenn

--- On Sat, 1/16/10, Mr Doug - <dsc3507@yahoo. com> wrote:

From: Mr Doug - <dsc3507@yahoo. com>
Subject: Re: [ntms-hsmm] New togroup, need info
To: ntms-hsmm@yahoogrou ps.com
Date: Saturday, January 16, 2010, 1:13 PM

Hi Glenn,

Yes, got it. I will print it out and study it this weekend. Is the link to firmware in the PDF? I did not see a separate reference to it.>There is a URL I sent that explains the firmware and provides the binaries to>load into your router.

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73 Doug

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To: ntms-hsmm@yahoogrou ps.com

Sent: Sat, January 16, 2010 1:28:22 PM

Subject: Re: [ntms-hsmm] New togroup, need info

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kd5mfw@arrl. net

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To: ntms-hsmm@yahoogrou ps.com

Date: Saturday, January 16, 2010, 10:22 AM

Kip,

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Doug

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From: Kipton Moravec <kip@...>

To: ntms-hsmm@yahoogrou ps.com

Sent: Sat, January 16, 2010 8:41:57 AM

Subject: Re: [ntms-hsmm] New togroup, need info

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I will cover what the mesh is, what hardware, what software, configuration, etc.

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If you can make it let me know. I have to limit the class to 30 and have 22 signed up so far.

If the weather turns good, I would like to get our first mesh node 180 Feet above ground level, at the PARK repeater site before the class. We may or may not be able to hit it from Lucas. There is a ridge in between.

Kip

kip@...

--

Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."

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1726. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-17 06:39:21 UTC
From: Kipton Moravec
Topic: 1712 Message: 1726

A new WRT54GS will work as it has less memory!

http://en.wikipedia.org/wiki/Linksys_WRT54G_series

You need 16 MB SRAM and 4 MB Flash. Check the version.

Buy the WRT54GL.

Kip

On Sat, 2010-01-16 at 22:08 -0800, Mr Doug - wrote:
> Glenn,
>
> Another question. If one were buying new 54's is there any advantage in this application to purchase the GS or is the GL adequate?
>
> Doug
>
>
>
>
> _____
> From: Glenn Currie <kd5mfw_7@...>
> To: ntms-hsmm@yahoogroups.com
> Sent: Sat, January 16, 2010 3:17:01 PM
> Subject: Re: [ntms-hsmm] New togroup, need info
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> Other questions answered in context below.
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> From: Mr Doug - <dsc3507@yahoo. com>
> Subject: Re: [ntms-hsmm] New togroup, need info
> To: ntms-hsmm@yahoogrou ps.com
> Date: Saturday, January 16, 2010, 1:13 PM

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> Kip
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--
Kipton Moravec AE5IB .- . ... -...

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--Mark Twain

1727. Re: [ntms-hsmm] Re: New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-17 09:44:38 UTC
From: Glenn Currie
Topic: 1712 Message: 1727

Roger,

I sent some HSMM-MESH information to you at
w4rfj@...

We fully intend to have this material and code on a web page
for down load soon. At the moment we are trying to get things
set up so we can better support the code, before taking on more
support work.

I hope to make an announcement soon where they information
and code will be posted.

Happy meshing,

-Glenn
kd5mfw@...

--- On Sat, 1/16/10, w4rfj <w4rfj@...> wrote:

From: w4rfj <w4rfj@...>
Subject: [ntms-hsmm] Re: New togroup, need info
To: ntms-hsmm@yahoogroups.com
Date: Saturday, January 16, 2010, 10:31 PM

Boy I would like to get at that info myself!!! Any way I can get a copy Kip or Doug??

Best Regards,

Roger W4RFJ

--- In ntms-hsmm@yahoogrou ps.com, Glenn Currie <kd5mfw_7@.. .> wrote:

>

> Doug,

>

> I sent the URL to:

>

> dsc3507@...

>

>

> I hope it makes it this time.

>

> -Glenn

>

> --- On Sat, 1/16/10, Mr Doug - <dsc3507@... > wrote:

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> From: Mr Doug - <dsc3507@... >

> Subject: Re: [ntms-hsmm] New togroup, need info

> To: ntms-hsmm@yahoogrou ps.com

> Date: Saturday, January 16, 2010, 3:35 PM

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> Glenn,

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> Thanks for all the answers! You said you sent a URL to firmware. I either missed it or did not get it. Could you please resend.

>

>

>

> 73 Doug

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> From: Glenn Currie <kd5mfw_7@yahoo. com>

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>

> To: ntms-hsmm@yahoogrou ps.com

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> Sent: Sat, January 16, 2010 1:28:22 PM

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> Subject: Re: [ntms-hsmm] New togroup, need info

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> kd5mfw@arrl. net

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> on February 6 all day. It will hopefully tell you all you need to know -

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> from theory to practice.

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> I will cover what the mesh is, what hardware, what software,

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> configuration, etc.

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> You are encouraged to bring your WRT54GL (or WRT54G Version <= 4) to

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> program it in the class. Bring a computer to load the SW. If you have a

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> Linux computer the last session will show you how to compile the source

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1728. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-17 09:51:57 UTC
From: Glenn Currie
Topic: 1712 Message: 1728

The answer is buy the WRT54GL. All other versions work fine, the GL is still being manufactured ,but is more forgiving on the power input. It is happy with 3.5 VDC to 18 VDC and pulls considerably less current than any of the other hardware versions.

This is all covered with graphs of power consumption of the different models, in at the URL I sent you.

I have some of all versions in my fleet and they all work fine. The version 1 WRT54G is 5 volts only and it draws a lot more power. If you are using it in a fixed location and a few extra watts of power drain is not a problem, they function fine.

There is a whole book on the WRT54G router. Check the open-wrt.org page as well as they describe the details of all the different versions.

-Glenn

--- On Sun, 1/17/10, Mr Doug - <dsc3507@yahoo.com> wrote:

From: Mr Doug - <dsc3507@...>
Subject: Re: [ntms-hsmm] New togroup, need info
To: ntms-hsmm@yahoogroups.com
Date: Sunday, January 17, 2010, 12:08 AM

Glenn,

Another question. If one were buying new 54's is there any advantage in this application to purchase the GS or is the GL adequate?

Doug

---------- --------- --------- --

From: Glenn Currie <kd5mfw_7@yahoo. com>

To: ntms-hsmm@yahoogrou ps.com

Sent: Sat, January 16, 2010 3:17:01 PM

Subject: Re: [ntms-hsmm] New togroup, need info

Doug,

Most of your questions should be answered in the documentation. The PDF file

is a copy of my Hamcom presentation last summer and provides an overview

of the project. I sent a URL to the firmware and detailed info on the firmware.

We are on our third version of custom, ham oriented firmware for the WRT54GL.

Other questions answered in context below.

-Glenn

--- On Sat, 1/16/10, Mr Doug - <dsc3507@yahoo. com> wrote:

From: Mr Doug - <dsc3507@yahoo. com>

Subject: Re: [ntms-hsmm] New togroup, need info

To: ntms-hsmm@yahoogrou ps.com

Date: Saturday, January 16, 2010, 1:13 PM

Hi Glenn,

Yes, got it. I will print it out and study it this weekend. Is the link to firmware in the PDF? I did not see a separate reference to it.>There is a URL I sent that explains the firmware and provides the binaries to>load into your router.

I do have a few questions. If these are answered in the PDF then you can just reference that....

- The WRT54 had many versions. Is there only one applicable to this firmmware? > WRT54G and WRT54GS version 1 - 4 and the WRT54GL are supported.>The WRT54GL is still for sale.

- Has the firmware/SW been ported to any other hardware? Namely the NSLU2 or equivalents. There are also specific mast mounted router/transceivers that are being used extensively in Europe and Africa that are very reasonably priced and already waterproof, POE, etc. Netgate comes to mind,>Our firmware mods are built on top of Open-WRT firmware. If you go to the>open-wrt web site and open wrt runs on hardware, our firmware will run on>on that hardware. The firmware work has been such a massive undertaking, >we have not taken the time to test other hardware than the WRT54G.

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- How are you handling connection to the Internet? Issues of content legality would seem to be an issue. Maybe you are not Internet connecting?> If you plug an Internet link into the WAN port on one of our mesh nodes,>all other nodes in RF range have Internet access is 5

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73 Doug

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From: Glenn Currie <kd5mfw_7@yahoo. com>

To: ntms-hsmm@yahoogrou ps.com

Sent: Sat, January 16, 2010 1:28:22 PM

Subject: Re: [ntms-hsmm] New togroup, need info

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kd5mfw@arrl. net

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Subject: Re: [ntms-hsmm] New togroup, need info

To: ntms-hsmm@yahoogrou ps.com

Date: Saturday, January 16, 2010, 10:22 AM

Kip,

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Doug

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To: ntms-hsmm@yahoogrou ps.com

Sent: Sat, January 16, 2010 8:41:57 AM

Subject: Re: [ntms-hsmm] New togroup, need info

On Sat, 2010-01-16 at 05:11 +0000, - wrote:

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Feet above ground level, at the PARK repeater site before the class. We may or may not be able to hit it from Lucas. There is a ridge in between.

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1729. Re: [ntms-hsmm] Re: New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-17 10:08:37 UTC
From: Glenn Currie
Topic: 1712 Message: 1729

Mel,

Send me a request at
kd5mfw@...

As I mentioned we are doing a number of things so as to be able to better support the growing number of users of the code. There is a LOT of material to work through to understand the details of how the system works.

Hopefully most can just load a binary file and set their call sign and not worry about how the hardware and thousands of lines of custom code work.

We plan to have the information on a web page for general down load soon.

I try to support people getting on the air.

Each version I release, outside the way I have agreed to do it with the other developers, I am personally on the hook to support and I spend a lot of time supporting the project and code already. If I play by the rules I have agreed to with the other developers, they will help me support new users.

It is common to spend 2 -10 hours with a new user, depending on their level of experience with computer networking and Linux, and if they just want to use the system or want to know all about how it works.

We have worked several years, keeping a low profile to be able to provide a complete working system. We have been focused on supporting only active developers. The idea was to make the push to get a whole working system done before taking on the support effort.

We want to get the code out there and use it, but we have to get things set up so we can do a reasonable job of supporting the effort.

I am happy for ham radio to have an absolutely cutting edge broadband microwave mesh network system.

Also I recomend reading the HSMM section of CQ-VHF magazine. HSMM SIG member K8OCL covers the developmet work we are doing.

Hang in there with us and we will get the info out as quickly as we can.

73's

-Glenn

--- On Sat, 1/16/10, icra@... <icra@...> wrote:

From: icra@galaxynet.com <icra@...>
Subject: Re: [ntms-hsmm] Re: New togroup, need info

To: ntms-hsmm@yahoogroups.com
Date: Saturday, January 16, 2010, 11:35 PM

> Boy I would like to get at that info myself!!! Any way I can get a

> copy Kip or Doug??

>

Add me to the list.....

Mel

N7OKL

[Non-text portions of this message have been removed]

1730. Re: [ntms-hsmm] Re: New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-17 12:57:10 UTC
From: Michael Lodico
Topic: 1712 Message: 1730

Same here guys. I would like to use it for possible future ECOMM here
in KY.

73 de K1EG

Michael Lodico
ARRL Kentucky Section
ASEC Region 2
(270) 651-6368 home
(270) 670-0905 cell
k1eg@...
k1eg@... <mailto:k1eg@...>

w4rfj wrote:
> Boy I would like to get at that info myself!!! Any way I can get a copy Kip or Doug??
>
> Best Regards,
>
> Roger W4RFJ
>
>
> --- In ntms-hsmm@yahoogroups.com, Glenn Currie <kd5mfw_7@...> wrote:
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>> Doug,
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>> I sent the URL to:
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>> I hope it makes it this time.
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>> -Glenn
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>> Glenn,
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>> Thanks for all the answers! You said you sent a URL to firmware. I either missed it or did not get it. Could you please resend.
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>> 73 Doug
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>> Kipton Moravec AE5IB .- . ... -...
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>> "Always do right; this will gratify some people and astonish the rest."
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>> --Mark Twain
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1731. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-17 19:18:52 UTC
From: Kilgore
Topic: 1712 Message: 1731

On 1/16/2010 2:17 PM, Glenn Currie wrote:
> Doug,
>
> Most of your questions should be answered in the documentation. The PDF file
> is a copy of my Hamcom presentation last summer and provides an overview
> of the project. I sent a URL to the firmware and detailed info on the firmware.
>
> We are on our third version of custom, ham oriented firmware for the WRT54GL.
>
> Other questions answered in context below.
>
> -Glenn
>
> --- On Sat, 1/16/10, Mr Doug -<dsc3507@...> wrote:
>
> From: Mr Doug -<dsc3507@...>
> Subject: Re: [ntms-hsmm] New togroup, need info
> To: ntms-hsmm@yahoogroups.com
> Date: Saturday, January 16, 2010, 1:13 PM
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>> it is technically trivial with our firmware.>There are those that argue endlessly about legal implications. I do not>advocate doing anything illegal. Do what you feel is legal.>Most of those arguing the legal issues never get further than arguing,>and refuse to accept that unless they are empowered to enforce

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> These are a few things that came to mind. I am sur eI will have a ton more questions. Maybe you can start a FAQ!>The FAQ is available on our yahoo site. We hope to have the information> on an open web site soon, but our web master is a volunteer and is>working as quickly as he can.>Try the firmware and see what you think. We are deploying HSMM-MESH>at the City of Austin EOC , Red Cross and area Hospitals to augment our>existing ARCHES hospital radio network.>Thanks for your interest.
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> 73 Doug
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> ---------- --------- --------- --
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> From: Glenn Currie<kd5mfw_7@yahoo. com>
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> To: ntms-hsmm@yahoogrou ps.com
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> Sent: Sat, January 16, 2010 1:28:22 PM
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> Doug,
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> kd5mfw@arrl. net
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> Date: Saturday, January 16, 2010, 10:22 AM
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> Kip,
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> I am in Philadelphia and I doubt I will be able to make a class in TX. I am a technical person and really do not need a class but rather written instructions and code. Is this going to be available?
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>> 73 Doug, WA3DSP
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> on February 6 all day. It will hopefully tell you all you need to know -
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> from theory to practice.
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> I will cover what the mesh is, what hardware, what software,
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> configuration, etc.
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> You are encouraged to bring your WRT54GL (or WRT54G Version<= 4) to
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1732. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-17 20:15:10 UTC
From: Mr Doug -
Topic: 1712 Message: 1732

Thanks Glenn, Then the GL it is.

I am sure this will be answered when I get the firmware installed and look at the web setup but the documents I read over from the WIKI seemed to indicate that the domain name of your organization was "burned" in the firmware. Is this a settable item?

I was also curious about the IP addresses. As you know AMPR has its own class A address space. I am a coordinator im my region. Why has there not been a push to use AMPR address space? I presume the answer might be that by definition class A has only one point of connection to the larger Internet. Just wanted to get your take on that.

Another thing that I guess could be argued forever is the real need for emergency communications. Things are changing at such a rapid pace that I fear the need is often largely not there anymore. Commercial communications is so widespread and has so many means at this point that it almost seems unnecessary to augment it. I am not sure Haiti is a good example but in days there is probably more communications on that island than there ever has been and I would surmise very little or none is ham radio. I suspect it never hurts to have another method but I also suspect it might be harder to sell than it would have been 10 years ago.

Doug

From: Glenn Currie <kd5mfw_7@...>
To: ntms-hsmm@yahoogroups.com
Sent: Sun, January 17, 2010 4:51:57 AM
Subject: Re: [ntms-hsmm] New togroup, need info

The answer is buy the WRT54GL. All other versions work fine, the GL is still being manufactured ,but is more forgiving on the power input. It is happy with 3.5 VDC to 18 VDC and pulls considerably less current than any of the other hardware versions.

This is all covered with graphs of power consumption of the different models, in at the URL I sent you.

I have some of all versions in my fleet and they all work fine. The version 1 WRT54G is 5 volts only and it draws a lot more power. If you are using it in a fixed location and a few extra watts of power drain is not a problem, they function fine.

There is a whole book on the WRT54G router. Check the open-wrt.org page as well as they describe the details of all the different versions.

-Glenn

--- On Sun, 1/17/10, Mr Doug - <dsc3507@yahoo. com> wrote:

From: Mr Doug - <dsc3507@yahoo. com>
Subject: Re: [ntms-hsmm] New togroup, need info
To: ntms-hsmm@yahoogrou ps.com
Date: Sunday, January 17, 2010, 12:08 AM

Glenn,

Another question. If one were buying new 54's is there any advantage in this application to purchase the GS or is the GL adequate?

Doug

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From: Glenn Currie <kd5mfw_7@yahoo. com>

To: ntms-hsmm@yahoogrou ps.com

Sent: Sat, January 16, 2010 3:17:01 PM

Subject: Re: [ntms-hsmm] New togroup, need info

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Other questions answered in context below.

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To: ntms-hsmm@yahoogrou ps.com

Date: Saturday, January 16, 2010, 1:13 PM

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Subject: Re: [ntms-hsmm] New togroup, need info

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kd5mfw@arrl. net

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Subject: Re: [ntms-hsmm] New togroup, need info

To: ntms-hsmm@yahoogrou ps.com

Date: Saturday, January 16, 2010, 10:22 AM

Kip,

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To: ntms-hsmm@yahoogrou ps.com

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1733. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-17 22:53:05 UTC
From: Glenn Currie
Topic: 1712 Message: 1733

Doug,

The HSMM-MESH is a cutting edge self configuring, self healing network. It is new stuff and a very, very, very large world in itself.

As configured, there is absolutely nothing that would keep your from using HSMM-MESH, unaltered, in your organization. There is also nothing whatsoever, that would keep you from linking into AMPR IP addresses.

We are currently using IP v4 with special code to take care of things IP v4 never considered or provides a solution for. We are currently working to move to IP v6.

IPv6 has some provisions for mobile links that come and go.

If you get into the details of some key aspects of allowing for mobile and mostly not connected nodes in a network you will see what the academics are working on with DARPA on Disruption Tolerant Networks, Mobile Ad Hoc Networks and similar networks like HSMM-MESH(TM)

Some of the core things of interest to us have to do with dynamic automatic linking and dynamic automatic rerouting of streams of data.

With multiple mesh nodes linked, if one node goes down, the mesh automatically routes the data through another mesh node, with absolutely no user intervention. The mesh network is NOT the Internet. Although it can be spread out, due to the distances some of the links can have, it is useful to view it as a private network in one room of your house.

So the vast majority of what the mesh network does has nothing to do with AMPR addresses. Once the data made it to a network where AMPR has a context, you can pass the data using AMPR addresses if you wish.

It is important to use addresses within the mesh that are not forward-able on the open Internet. Again, the mesh is not the Internet. It can be connected if you like, using an AMPR address, but it can run completely stand alone.

The local AMPR administrator, N5SMN is active in our work, and we had the AMPR discussion several years ago and there is nothing we are doing that would keep you from using AMPR addresses in the context where they are relevant.

Much of what we are doing with HSMM-MESH will have some support in IPv6, and we are moving to IPv6 in later firmware. Current firmware is IPv4 based. The IPv6 work has been in progress
for about a year at this time. There is nothing in IPv6 that does much to change anything with AMPR assigned addresses. If you know of changes, let me know.

There are references to OLSR and key IPv6 considerations on the wiki link I sent. I think once you dig in a bit deeper, you may find the mesh work is much more of

a very, very large new world, than a minimal implementation of existing technology.

Except for not turning on strong software encryption, HSMM-MESH is much closer to military mesh systems than existing network systems.

One way to look at it is that on the WRT54G, there are three separate networks. The 4 port switch connections are one network and tie into existing networks, using conventional computer LAN network techniques. The wired WAN connection can be used to tie into the Internet using traditional WAN techniques.

The RF network is where all the new stuff is and it differs, significantly from the way things have been done in the past. Optimum Link State Routing is used as a new link level protocol, and that is where we do our unique addressing. If you read up on OLSR, you will see why the addressing scheme on the RF network works like it does.

The programmable router function of the WRT54G defines how the three separate networks in the box are cross linked. The way the three networks operate with HSMM-MESH(TM) firmware is different than the way they work with the factory firmware.

If you check into the 802.11b specification, you will see that all nodes using an Ad Hoc connection, use the same SSID. The OLSR mesh scheme uses a modified Ad Hoc link model. HSMM-MESH is what we chose to use for our system. Again this is part of the IEEE 802.11 spec. If you change this, and you can, your system will not link to ours. That may be what you want, but you need to understand the implications.

So we had to pick a SSID, but it is related to an 802.11 spec requirement, and not an attempt to brand the system to any organization. That is why we picked HSMM-MESH as the name to have a generic name.

The name can be changed to the name of your organization. That is configurable on the set up web page provided by HSMM-MESH firmware, served up from inside the WRT54G. We can and have set up multiple mesh networks with different network names. The channel you operate on can be changed as well.

But as one
example of the extreme flexibility of the HSMM-MESH design, is that you can have two mesh networks, operating on the same channel, using different SSIDs. It works. There are collisions as you would expect but I have run two different mesh networks on the same channel and passed live video over both of them at the same time, and it works fine. You have to get out some test gear to see the collisions.

As I said, this is more of new world, than just picking some addresses and putting your call sign in as the SSID. Working on channels 1 - 6 and setting the SSID to your call sign IS HSMM. It is just a simple version. We are doing a bit of a different type of HSMM. There are countless other ways things could be done and still be considered HSMM.

The changes to the WRT54G firmware have involved some significant heavy lifting to come up with HSMM-MESH(TM) and that is why we trade mark the system. We make it available for free, but it is not just a name, it is a quite involved system,

developed over a period of about 8 years. We kept a low profile until we had a complete working system.

If you will use the system in the way we have designed, it, your systems will link. You are free to make whatever changes you like, but if it does not follow HSMM-MESH guidelines, we cannot help you or guarantee, that data can be passed, your are on your own. Make sure that is what you want to do.

For example, you can go in and make a bunch of changes to APRS, but if you do not follow the design guide lines, your changes may be unique to your system and not work with the rest of the APRS system.

So the place where AMPR probably would make sense to use, is on the WAN port. Since it uses traditional networking techniques, no changes are needed.
Set the address to an AMPR address if you like, and deal with the benefits / implications.

We are in the process of using HSMM-MESH to link the City of Austin EOC, area hospitals and other "sites of interest". Being in the Capitol city means there are quite a few "sites of interest". So ham ecomm may be on the way out in many places, HSMM-MESH will cover the Austin area.

Also, I have not mentioned mobile links. With the fast auto linking, it is possible to pass messages as we drive by a fixed HSMM-MESH site or even another mobile unit. We have passed live video and many megabytes of files as some of the key developers travel to and from the Texas Star Party. Live video between vehicles at 80mph on I-10 in west Texas is a hoot.

The HSMM-MESH developers work with other hams at the Texas Star Party to pipe in the Internet to a guest ranch near Ft. Davis in west Texas. The TSP attracts about 800 astronomers to the foot hills around the McDonald Observatory (where I used to work). The hams bring in the Internet then set up a hybrid 802.11a / 802.11g network to provide Internet access for all the astronomers for a week. It has been a great training ground for our mesh development work.

Do a google search for Texas Star Party. We run a special events station for a week from the very well equipped TSP ham shack on the Prude Guest Ranch.

To vastly expand the flexibility of the system as well as making it more complex, any of the wired network connections on the WRT54G mesh nodes could be connected to other RF network system. As flexibility and how many different ways the existing HSMM-MESH system could be configured grows, complexity approaches infinity.
A limited subset of all possible ways to configure the system are the ones useful to focus on.

Again the information on the wiki and the many links to other references, covers how the system works.

I hope this brief summary is helpful. Beyond this, it is probably good to dig into the info on the wiki.

Thanks for your interest.

-Glenn

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I am sure this will be answered when I get the firmware installed and look at the web setup but the documents I read over from the WIKI seemed to indicate that the domain name of your organization was "burned" in the firmware. Is this a settable item?

I was also curious about the IP addresses. As you know AMPR has its own class A address space. I am a coordinator im my region. Why has there not been a push to use AMPR address space? I presume the answer might be that by definition class A has only one point of connection to the larger Internet. Just wanted to get your take on that.

Another thing that I guess could be argued forever is the real need for emergency communications. Things are changing at such a rapid pace that I fear the need is often largely not there anymore. Commercial communications is so widespread and has so many means at this point that it almost seems unnecessary to augment it. I am not sure Haiti is a good example but in days there is probably more communications on that island than there ever has been and I would surmise very little or none is ham radio. I suspect it never hurts to have another method but I also suspect it might be harder to sell than it would have been 10 years ago.

Doug

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From: Glenn Currie <kd5mfw_7@yahoo. com>

To: ntms-hsmm@yahoogrou ps.com

Sent: Sun, January 17, 2010 4:51:57 AM

Subject: Re: [ntms-hsmm] New togroup, need info

The answer is buy the WRT54GL. All other versions work fine, the GL is still being

manufactured ,but is more forgiving on the power input. It is happy with

3.5 VDC to 18 VDC and pulls considerably less current than any of the other

hardware versions.

This is all covered with graphs of power consumption of the different models, in

at the URL I sent you.

I have some of all versions in my fleet and they all work fine. The version 1 WRT54G

is 5 volts only and it draws a lot more power. If you are using it in a fixed location

and a few extra watts of power drain is not a problem, they function fine.

There is a whole book on the WRT54G router. Check the open-wrt.org page as well

as they describe the details of all the different versions.

-Glenn

--- On Sun, 1/17/10, Mr Doug - <dsc3507@yahoo. com> wrote:

From: Mr Doug - <dsc3507@yahoo. com>

Subject: Re: [ntms-hsmm] New togroup, need info

To: ntms-hsmm@yahoogrou ps.com

Date: Sunday, January 17, 2010, 12:08 AM

Glenn,

Another question. If one were buying new 54's is there any advantage in this application to purchase the GS or is the GL adequate?

Doug

---------- --------- --------- --

From: Glenn Currie <kd5mfw_7@yahoo. com>

To: ntms-hsmm@yahoogrou ps.com

Sent: Sat, January 16, 2010 3:17:01 PM

Subject: Re: [ntms-hsmm] New togroup, need info

Doug,

Most of your questions should be answered in the documentation. The PDF file

is a copy of my Hamcom presentation last summer and provides an overview

of the project. I sent a URL to the firmware and detailed info on the firmware.

We are on our third version of custom, ham oriented firmware for the WRT54GL.

Other questions answered in context below.

-Glenn

--- On Sat, 1/16/10, Mr Doug - <dsc3507@yahoo. com> wrote:

From: Mr Doug - <dsc3507@yahoo. com>

Subject: Re: [ntms-hsmm] New togroup, need info

To: ntms-hsmm@yahoogrou ps.com

Date: Saturday, January 16, 2010, 1:13 PM

Hi Glenn,

Yes, got it. I will print it out and study it this weekend. Is the link to firmware in the PDF? I did not see a separate reference to it.>There is a URL I sent that explains the firmware and provides the binaries to>load into your router.

I do have a few questions. If these are answered in the PDF then you can just reference that....

- The WRT54 had many versions. Is there only one applicable to this firmmware? > WRT54G and WRT54GS version 1 - 4 and the WRT54GL are supported.>The WRT54GL is still for sale.

- Has the firmware/SW been ported to any other hardware? Namely the NSLU2 or equivalents. There are also specific mast mounted router/transceivers that are being used extensively in Europe and Africa that are very reasonably priced and already waterproof, POE, etc. Netgate comes to mind,>Our firmware mods are built on top of Open-WRT firmware. If you go to the>open-wrt web site and open wrt runs on hardware, our firmware will run on>on that hardware. The firmware work has been such a massive undertaking, >we have not taken the time to test other hardware than the WRT54G.

- Has there been crystal changes in your group in the WRT54 to make the channels all fall in the ham band?>Yes, check the next issue of CQ-VHF magazine. We have a dual xtal mod that> lets you use a different "slide band" crystal or the factory standard, by>changing a jumper on the back of the case.>I also have a VFO with 1 HZ resolution working so we have a "dynamic>slide band" radio as well.

- Is anyone running higher power with amps etc.?>Yes, they work but are seldom needed. We regularly do 10 mile hops across

>Austin, TX just using directional antennas. Good paths are critical and power> does not overcome a bad path. The amps are good if you want to keep the

>radio on the ground and run Andrews hard line up a tower. The amp

>overcomes feed line loss. If you are interested in joining our yahoo>group, the amp testing info is on line. One of our HSMM SIG members does>FCC acceptance testing and put some amps through the paces in his>lab.

- How are you handling connection to the Internet? Issues of content legality would seem to be an issue. Maybe you are not Internet connecting?> If you plug an Internet link into the WAN port on one of our mesh nodes,>all other nodes in RF range have Internet access is 5 seconds. We are working>out the details of having multiple Internet sources. That will be handled

>in later firmware.>Connectin g to the Internet is not needed to make use of the network, but

>it is technically trivial with our firmware.>There are those that argue endlessly about legal implications. I do not>advocate doing anything illegal. Do what you feel is

legal.>Most of those arguing the legal issues never get further than arguing,>and refuse to accept that unless they are empowered to enforce

>the rules and regs, their personal opinion has no legal standing.>Again, know the rules and go by them.

These are a few things that came to mind. I am sur eI will have a ton more questions. Maybe you can start a FAQ!>The FAQ is available on our yahoo site. We hope to have the information> on an open web site soon, but our web master is a volunteer and is>working as quickly as he can.>Try the firmware and see what you think. We are deploying HSMM-MESH>at the City of Austin EOC , Red Cross and area Hospitals to augment our>existing ARCHES hospital radio network.>Thanks for your interest.

73 Doug

---------- --------- --------- --

From: Glenn Currie <kd5mfw_7@yahoo. com>

To: ntms-hsmm@yahoogrou ps.com

Sent: Sat, January 16, 2010 1:28:22 PM

Subject: Re: [ntms-hsmm] New togroup, need info

Doug,

I attempted to send you my Hamcom presentation as well as a pointer to the

HSMM-MESH firmware and documentation. Did you receive the information?

-Glenn

kd5mfw@arrl. net

--- On Sat, 1/16/10, Mr Doug - <dsc3507@yahoo. com> wrote:

From: Mr Doug - <dsc3507@yahoo. com>

Subject: Re: [ntms-hsmm] New togroup, need info

To: ntms-hsmm@yahoogrou ps.com

Date: Saturday, January 16, 2010, 10:22 AM

Kip,

I am in Philadelphia and I doubt I will be able to make a class in TX. I am a technical person and really do not need a class but rather written instructions and code. Is this going to be available?

Doug

---------- --------- --------- --

From: Kipton Moravec <kip@...>

To: ntms-hsmm@yahoogrou ps.com

Sent: Sat, January 16, 2010 8:41:57 AM

Subject: Re: [ntms-hsmm] New togroup, need info

On Sat, 2010-01-16 at 05:11 +0000, - wrote:

> I was directed to this group by a member of the Net44 TCP/IP email list. He said you all were working on or had a mesh wet54 system up and running. Is there a link to more info on this and a description of your current system.

>

> I was involved in early packet and contributed to the early JNOS project. As most early packeteers I have been away from it for awhile due to inactivity but looking to build a high-speed network in the Philadelphia area.

>

> 73 Doug, WA3DSP

>

We are having a class in Lucas, (12 miles from Plano, north of Dallas)

on February 6 all day. It will hopefully tell you all you need to know -

from theory to practice.

I will cover what the mesh is, what hardware, what software,

configuration, etc.

You are encouraged to bring your WRT54GL (or WRT54G Version <= 4) to

program it in the class. Bring a computer to load the SW. If you have a

Linux computer the last session will show you how to compile the source

code, so bring the Linux computer if you want to do that also.

If you can make it let me know. I have to limit the class to 30 and have

22 signed up so far.

If the weather turns good, I would like to get our first mesh node 180

Feet above ground level, at the PARK repeater site before the class. We

may or may not be able to hit it from Lucas. There is a ridge in

between.

Kip

kip@kdream.com

--

Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."

--Mark Twain

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1734. Re: [ntms-hsmm] Free book on Mesh Networking - must read

Yahoo group: DAWG-HSMM
Date: 2010-01-17 23:11:48 UTC
From: Glenn Currie
Topic: 1712 Message: 1734

If you have any interest at all in HSMM, you need to down load this free book.

<http://wndw.net/download.html>

This book tells how to set up a mesh network in a developing country, which is about 99% the same job as setting up a HSMM network in that you have to supply all the infrastructure.

This book tells you how to set up a nice mesh network.
They cover all the key things you need to know. They discuss using the WRT54G. Just use HSMM-MESH firmware instead of the similar firmware they mention and you have a 425 page book that tell you what to do to set up a mesh network.

Again, if you have ANY intrest in HSMM, you need to take a look at this free book. It pretty much explains what we have independently developed in the Austin HSMM SIG, except we have developed a our own custom firmware and done crystal mods.

-Glenn
kd5mfw@...

[Non-text portions of this message have been removed]

1735. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-17 23:33:28 UTC
From: Mr Doug -
Topic: 1712 Message: 1735

Thanks again Glenn and I am downloading the book you recommended as I write this.

I did not mean to imply that there was a problem with not using AMPRNET addresses. In fact in face of the way things work in Mesh and also in real life the AMPR addresses may really not be that important. I think it is turf that they are desparately hanging onto and it made more sense in the RF packet days when we were not that Internet connected. The problem with a class A network like AMPRNET is that it really only should have one connection to its superior network. I am not sure how that would work in the Mesh topology. It probably would not. If you originate at 44.x.x.x packet on the Internet it goes to a computer at UCSD.edu and then if there is routing there via a virtual connection to that particular piece of the 44 network. There is very little real RF out there anymore. At one time we had hundreds of AMPR TCP/Ip station just here in Philadelphia and none today.

How does Mesh handle multiple Internet connections within a single Mesh network? It seems that for redundancy that would be important.

How does Mesh handle the situation where you, for example, have 3 nodes, A,B,C in a triangle, all we will say 10 miles apart, good path. If you use a direction antenna at each node, it would point at just one other node. Would you need two 54's and two antennas at each site? If so how would the two connect? Via cable or residual RF?

73 Doug

From: Glenn Currie <kd5mfw_7@...>
To: ntms-hsmm@yahoogroups.com
Sent: Sun, January 17, 2010 5:53:05 PM
Subject: Re: [ntms-hsmm] New togroup, need info

Doug,

The HSMM-MESH is a cutting edge self configuring, self healing network. It is new stuff and a very, very, very large world in itself.

As configured, there is absolutely nothing that would keep your from using HSMM-MESH, unaltered, in your organization. There is also nothing whatsoever, that would keep you from linking into AMPR IP addresses.

We are currently using IP v4 with special code to take care of things IP v4 never considered or provides a solution for. We are currently working to move to IP v6.

IPv6 has some provisions for mobile links that come and go.

If you get into the details of some key aspects of allowing for mobile and mostly not connected nodes in a network you will see what the academics are working on with DARPA on Disruption Tolerant Networks, Mobile Ad Hoc Networks and similar networks like HSMM-MESH(TM)

Some of the core things of interest to us have to do with dynamic automatic linking and dynamic automatic rerouting of streams of data.

With multiple mesh nodes linked, if one node goes down, the mesh automatically routes the data through another mesh node, with absolutely no user intervention. The mesh network is NOT the Internet. Although it can be spread out, due to the distances some of the links can have, it is useful to view it as a private network in one room of your house.

So the vast majority of what the mesh network does has nothing to do with AMPR addresses. Once the data made it to a network where AMPR has a context, you can pass the data using AMPR addresses if you wish.

It is important to use addresses within the mesh that are not forward-able on the open Internet. Again, the mesh is not the Internet. It can be connected if you like, using an AMPR address, but it can run completely stand alone.

The local AMPR administrator, N5SMN is active in our work, and we had the AMPR discussion several years ago and there is nothing we are doing that would keep you from using AMPR addresses in the context where they are relevant.

Much of what we are doing with HSMM-MESH will have some support in IPv6, and we are moving to IPv6 in later firmware. Current firmware is IPv4 based. The IPv6 work has been in progress
for about a year at this time. There is nothing in IPv6 that does much to change anything with AMPR assigned addresses. If you know of changes, let me know.

There are references to OLSR and key IPv6 considerations on the wiki link I sent. I think once you dig in a bit deeper, you may find the mesh work is much more of a very, very large new world, than a minimal implementation of existing technology.

Except for not turning on strong software encryption, HSMM-MESH is much closer to military mesh systems than existing network systems.

One way to look at it is that on the WRT54G, there are three separate networks. The 4 port switch connections are one network and tie into existing networks, using conventional computer LAN network techniques. The wired WAN connection can be used to tie into the Internet using traditional WAN techniques.

The RF network is where all the new stuff is and it differs, significantly from the way things have been done in the past. Optimum Link State Routing is used as a new link level protocol, and that is where we do our unique addressing. If you read up on OLSR, you will see why the addressing scheme on the RF network works like it does.

The programmable router function of the WRT54G defines how the three separate networks in the box are cross linked. The way the three networks operate with HSMM-MESH(TM) firmware is different than the way they work with the factory firmware.

If you check into the 802.11b specification, you will see that all nodes using an Ad Hoc connection, use the same SSID. The OLSR mesh scheme uses a modified Ad Hoc link model. HSMM-MESH is what we chose to use for our system. Again this is part of the IEEE 802.11 spec. If you change this, and you can, your system

will not link to ours. That may be what you want, but you need to understand the implications.

So we had to pick a SSID, but it is related to an 802.11 spec requirement, and not an attempt to brand the system to any organization. That is why we picked HSMM-MESH as the name to have a generic name.

The name can be changed to the name of your organization. That is configurable on the set up web page provided by HSMM-MESH firmware, served up from inside the WRT54G. We can and have set up multiple mesh networks with different network names. The channel you operate on can be changed as well.

But as one
example of the extreme flexibility of the HSMM-MESH design, is that you can have two mesh networks, operating on the same channel, using different SSIDs. It works. There are collisions as you would expect but I have run two different mesh networks on the same channel and passed live video over both of them at the same time, and it works fine. You have to get out some test gear to see the collisions.

As I said, this is more of new world, than just picking some addresses and putting your call sign in as the SSID. Working on channels 1 - 6 and setting the SSID to your call sign IS HSMM. It is just a simple version. We are doing a bit of a different type of HSMM. There are countless other ways things could be done and still be considered HSMM.

The changes to the WRT54G firmware have involved some significant heavy lifting to come up with HSMM-MESH(TM) and that is why we trade mark the system. We make it available for free, but it is not just a name, it is a quite involved system, developed over a period of about 8 years. We kept a low profile until we had a complete working system.

If you will use the system in the way we have designed, it, your systems will link. You are free to make whatever changes you like, but if it does not follow HSMM-MESH guidelines, we cannot help you or guarantee, that data can be passed, your are on your own. Make sure that is what you want to do.

For example, you can go in and make a bunch of changes to APRS, but if you do not follow the design guide lines, your changes may be unique to your system and not work with the rest of the APRS system.

So the place where AMPR probably would make sense to use, is on the WAN port. Since it uses traditional networking techniques, no changes are needed.
Set the address to an AMPR address if you like, and deal with the benefits / implications.

We are in the process of using HSMM-MESH to link the City of Austin EOC, area hospitals and other "sites of interest". Being in the Capitol city means there are quite a few "sites of interest". So ham ecomm may be on the way out in many places, HSMM-MESH will cover the Austin area.

Also, I have not mentioned mobile links. With the fast auto linking, it is possible to pass messages as we drive by a fixed HSMM-MESH site or even another mobile unit. We have passed live video and many megabytes of files as some of the key

developers travel to and from the Texas Star Party. Live video between vehicles at 80mph on I-10 in west Texas is a hoot.

The HSMM-MESH developers work with other hams at the Texas Star Party to pipe in the Internet to a guest ranch near Ft. Davis in west Texas. The TSP attracts about 800 astronomers to the foot hills around the McDonald Observatory (where I used to work). The hams bring in the Internet then set up a hybrid 802.11a / 802.11g network to provide Internet access for all the astronomers for a week. It has been a great training ground for our mesh development work.

Do a google search for Texas Star Party. We run a special events station for a week from the very well equipped TSP ham shack on the Prude Guest Ranch.

To vastly expand the flexibility of the system as well as making it more complex, any of the wired network connections on the WRT54G mesh nodes could be connected to other RF network system. As flexibility and how many different ways the existing HSMM-MESH system could be configured grows, complexity approaches infinity.
A limited subset of all possible ways to configure the system are the ones useful to focus on.

Again the information on the wiki and the many links to other references, covers how the system works.

I hope this brief summary is helpful. Beyond this, it is probably good to dig into the info on the wiki.

Thanks for your interest.

-Glenn

[Non-text portions of this message have been removed]

1736. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-18 00:45:08 UTC
From: Glenn Currie
Topic: 1712 Message: 1736

Doug,

Handling multiple Internet connections into one mesh is not handled automatically in the current firmware. It is one of the many things on the list for later firmware. We made the one link trivial and more code is needed to sort out multiple links, do load sharing etc, and there is only so much room in the memory of a WRT54G for code.

We typically choose to link to the Internet via our private Internet link in the City of Austin EOC. This link has redundant connections to the Internet and is completely separate from all other Internet links in the building.

Field operators can check if there is a live link and inject one as needed. If they see more than one link they can contact operators and get them to add or remove links as needed.

Sorting out multiple Internet links, determining dynamic Quality of Service and load splitting are non trivial tasks, but are on the "want" list for future firmware.

The WRT54G normally runs with two antennas in diversity mode, it simply switches (very rapidly) between the two antennas and talks to a node on the antenna on which it received your last signal. Aim two directional antennas in two different directions, and the radio will sort it out automatically, choosing the correct antenna. No user intervention needed.

If you need more directions add more mesh nodes aim the directional antennas and cross link them with the wired connections on the back of the mesh nodes.

We are getting into discussing a mixed network. We find with 11 dB omni antennas WRT54G routers will link at over 7 miles with no amp. Make it 3 to 5 miles between nodes and you operate as a true mesh when you have a minimum of 3 nodes.

If you have less than 3 nodes in your network, you have, by definition, a point to point link. The same firmware will work fine, but you need more nodes within RF range to have an actual mesh.

Distances mentioned are with good Line Of Sight
paths with clear Fresnel zones. Amps do little good if the path is not there, unless you have enough power to burn a hole in what is in the way. If so, when the smoke clears you may have a better link. One watt bidirectional 2.4GHz amps are sold in the Austin area for $69.00 by Discount Electronics. They are on the web. If you have to run more than 0.5 to 1 watt you need to seek a better path, the power is just going to make a mess and not get your signal where you want it.

We do 10 miles, at will with no amps across hundreds of thousands of cordless phones, wireless computer networks (thousands around the U.T. campus) and microwave ovens. Just use high gain directional antennas, aim them carefully (a whole

presentation) and clamp them securely in place. These links are made a will with no amps.

If the links get too far apart, you are talking about a point to point link. You could put up multiple radios at each end and if one died the others would automatically take over. So put two like mesh nodes on each end, with independent power and antennas, and you have a redundant link with auto switch over.

For 1 to 5 mile hops we recommend vertical polarization of omni directional antennas to form a true mesh. If you set up a point to point link we recommend horizontal polarization.

-Glenn

--- On Sun, 1/17/10, Mr Doug - <dsc3507@...> wrote:

From: Mr Doug - <dsc3507@...>
Subject: Re: [ntms-hsmm] New togroup, need info
To: ntms-hsmm@yahoogroups.com
Date: Sunday, January 17, 2010, 5:33 PM

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As I said, this is more of new world, than just picking some addresses and putting your call sign in as the SSID. Working on channels 1 - 6 and setting the SSID to your call sign IS HSMM. It is just a simple version. We are doing a bit of a different type of HSMM. There are countless other ways things could be done and still be considered HSMM.

The changes to the WRT54G firmware have involved some significant heavy lifting to come up with HSMM-MESH(TM) and that is why we trade mark the system. We make it available for free, but it is not just a name, it is a quite involved system, developed over a period of about 8 years. We kept a low profile until we had a complete working system.

If you will use the system in the way we have designed, it, your systems will link. You are free to make whatever changes you like, but if it does not follow HSMM-MESH guidelines, we cannot help you or guarantee, that data can be passed, your are on your own. Make sure that is what you want to do.

For example, you can go in and make a bunch of changes to APRS, but if you do not follow the design guide lines, your changes may be unique to your system and

not work with the rest of the APRS system.

So the place where AMPR probably would make sense to use, is on the WAN port. Since it uses traditional networking techniques, no changes are needed.

Set the address to an AMPR address if you like, and deal with the benefits /

implications.

We are in the process of using HSMM-MESH to link the City of Austin EOC,

area hospitals and other "sites of interest". Being in the Capitol city means

there are quite a few "sites of interest". So ham ecomm may be on the way

out in many places, HSMM-MESH will cover the Austin area.

Also, I have not mentioned mobile links. With the fast auto linking, it is possible

to pass messages as we drive by a fixed HSMM-MESH site or even another mobile

unit. We have passed live video and many megabytes of files as some of the key

developers travel to and from the Texas Star Party. Live video between vehicles

at 80mph on I-10 in west Texas is a hoot.

The HSMM-MESH developers work with other hams at the Texas Star Party to pipe

in the Internet to a guest ranch near Ft. Davis in west Texas. The TSP attracts about

800 astronomers to the foot hills around the McDonald Observatory (where I used to

work). The hams bring in the Internet then set up a hybrid 802.11a / 802.11g

network to provide Internet access for all the astronomers for a week. It has been

a great training ground for our mesh development work.

Do a google search for Texas Star Party. We run a special events station for a week

from the very well equipped TSP ham shack on the Prude Guest Ranch.

To vastly expand the flexibility of the system as well as making it more complex, any

of the wired network connections on the WRT54G mesh nodes could be connected

to other RF network system. As flexibility and how many different ways the existing

HSMM-MESH system could be configured grows, complexity approaches infinity.

A limited subset of all possible ways to configure the system are the ones useful to focus on.

Again the information on the wiki and the many links to other references, covers how the system works.

I hope this brief summary is helpful. Beyond this, it is probably good to dig into the info on the wiki.

Thanks for your interest.

-Glenn

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1737. Re: [ntms-hsmm] Free book on Mesh Networking - must read

Yahoo group: DAWG-HSMM
Date: 2010-01-18 01:16:04 UTC
From: Bob Scanferla
Topic: 1712 Message: 1737

Glenn

Thanks for the link.

I had a quick look through the TOC and the book and it looks excellent.....it is especially nice to see the DIY projects!

I know in my part of the world where the Internet is practically in every home, it is difficult to motivate HAMS to use Packet because of the speed challenge.....the only time the low speed RF networks are used is during emergencies and then the very low bandwidth and congestion is an issue.

This may be a good solution for both backbone and LAN.....I look forward to reading the book.

Regards
Bob
VA3RJS

From: Glenn Currie <kd5mfw_7@...>
To: ntms-hsmm@yahoogroups.com
Sent: Sun, January 17, 2010 6:11:48 PM
Subject: Re: [ntms-hsmm] Free book on Mesh Networking - must read

If you have any interest at all in HSMM, you need to down load this
free book.

<http://wndw. net/download. html>

This book tells how to set up a mesh network in a developing country,
which is about 99% the same job as setting up a HSMM network in that
you have to supply all the infrastructure.

This book tells you how to set up a nice mesh network.
They cover all the key things you need to know. They discuss using the
WRT54G. Just use HSMM-MESH firmware instead of the similar firmware
they mention and you have a 425 page book that tell you what to do to
set up a mesh network.

Again, if you have ANY intrest in HSMM, you need to take a look
at this free book. It pretty much explains what we have independently
developed in the Austin HSMM SIG, except we have developed a our
own custom firmware and done crystal mods.

-Glenn
kd5mfw@arrl. net

[Non-text portions of this message have been removed]

_____
Yahoo! Canada Toolbar: Search from anywhere on the web, and bookmark your favourite sites.
Download it now
http://ca.toolbar.yahoo.com.

[Non-text portions of this message have been removed]

1738. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-16 14:18:50 UTC
From: Jay Nugent
Topic: 1712 Message: 1738

Greetings Kip,
Would love to attend your class, but I am in Ypsilanti, Michigan (next door to Ann Arbor) -- and Doug WA3DSP is in Philadelphia. Not likely either of us will get down to Plano - HI HI.

Is there any chance the training material will be available online?
And where does one find the website where the software is available?

Thanks!
--- Jay Nugent WB8TKL
o Chair, ARRL Michigan Section "Digital Radio Group" (DRG)
[www.MI-DRG.org]

On Sat, 16 Jan 2010, Kipton Moravec wrote:

> On Sat, 2010-01-16 at 05:11 +0000, - wrote:
> > I was directed to this group by a member of the Net44 TCP/IP email
> > list. He said you all were working on or had a mesh wet54 system up
> > and running. Is there a link to more info on this and a description of
> > your current system.
> >
> > I was involved in early packet and contributed to the early JNOS
> > project. As most early packeteers I have been away from it for awhile
> > due to inactivity but looking to build a high-speed network in the
> > Philadelphia area.
> >
> > 73 Doug, WA3DSP
> >
>
> We are having a class in Lucas, (12 miles from Plano, north of Dallas)
> on February 6 all day. It will hopefully tell you all you need to know -
> from theory to practice.
>
> I will cover what the mesh is, what hardware, what software,
> configuration, etc.
> You are encouraged to bring your WRT54GL (or WRT54G Version <= 4) to
> program it in the class. Bring a computer to load the SW. If you have a
> Linux computer the last session will show you how to compile the source
> code, so bring the Linux computer if you want to do that also.
>
> If you can make it let me know. I have to limit the class to 30 and have
> 22 signed up so far.
>
> If the weather turns good, I would like to get our first mesh node 180
> Feet above ground level, at the PARK repeater site before the class. We
> may or may not be able to hit it from Lucas. There is a ridge in

```
> between.
>
> Kip
> kip@...

Train how you will Operate, and you will Operate how you were Trained.
+-----------------------------------------------------------------------+
| Jay Nugent jjn@... (734)484-5105 (734)649-0850/Cell |
| Nugent Telecommunications [www.nuge.com] |
| Internet Consulting/Linux SysAdmin/Engineering & Design/ISP Reseller |
| ISP Monitoring [www.ispmonitor.org] ISP & Modem Performance Monitoring |
| Web-Pegasus [www.webpegasus.com] Web Hosting/DNS Hosting/Shell Accts|
+-----------------------------------------------------------------------+
9:01am up 37 days, 8:39, 3 users, load average: 0.05, 0.06, 0.07
```

1739. Re: [ntms-hsmm] FS: Omni Directional Outdoor 2.4 Ghz

Yahoo group: DAWG-HSMM
Date: 2010-01-07 23:48:14 UTC
From: Kipton Moravec
Topic: 1710 Message: 1739

Seems like it is on the pricey side.

http://www.titanwirelessonline.com/ProductDetails.asp?ProductCode=AT-15OM-24

Is 15 db gain omni for $60 NEW!

I just ordered one today.

Kip

On Thu, 2010-01-07 at 18:11 -0500, James C. Duram wrote:
> Came across this from another list:
>
> Jim, K8COP
>
>
>
>
> Applications: 802.11g, 802.11n, Wireless LAN, Bluetooth, Public Wireless HOTSPOT, WiFi.
>
> Frequency: 2400-2500 Mhz
> Gain: from 8 to 12 dBi
> Polarization: Vertical
> Vertical Beam Width: 8 degrees
> Horizontal Beam Width 360 degrees
> Weight 3.3 lbs.
> Length: 40.5 inches
> comes w/ integrated N-Female Connector.
>
> 14 each unattached
> 22 each attached to poles (I will have removed)
> 36 total
>
> PRICE: $60 each or whole lot for $2100. All poles are USED.
>
> Meg Schell
>
> mschell12@...
>
>
>
>
> [Non-text portions of this message have been removed]
>
>
>

> ----------
>
> Yahoo! Groups Links
>
>
>
>
--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1740. Re: [ntms-hsmm] Re: New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-17 09:39:47 UTC
From: Jay Nugent
Topic: 1712 Message: 1740

Greetings,

On Sat, 16 Jan 2010 icra@... wrote:

```
>
> > Boy I would like to get at that info myself!!! Any way I can get a
> > copy Kip or Doug??
> >
> Add me to the list.....
>
> Mel
> N7OKL
```

And me :)

Jay Nugent WB8TKL
jjn@...

```
Train how you will Operate, and you will Operate how you were Trained.
+-----------------------------------------------------------------------+
| Jay Nugent jjn@... (734)484-5105 (734)649-0850/Cell |
| Nugent Telecommunications [www.nuge.com] |
| Internet Consulting/Linux SysAdmin/Engineering & Design/ISP Reseller |
| ISP Monitoring [www.ispmonitor.org] ISP & Modem Performance Monitoring |
| Web-Pegasus [www.webpegasus.com] Web Hosting/DNS Hosting/Shell Accts|
+-----------------------------------------------------------------------+
4:01am up 38 days, 3:39, 3 users, load average: 0.73, 0.18, 0.06
```

1741. RE: [ntms-hsmm] Free book on Mesh Networking - must read

Yahoo group: DAWG-HSMM
Date: 2010-01-18 02:34:36 UTC
From: Dave
Topic: 1712 Message: 1741

Thank you for the reference book. I now have it too. :-)

Dave
DM78qg // KA0SWT
/++++++++++++++++++++++++++++++++/

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Bob Scanferla
Sent: Sunday, January 17, 2010 18:16
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Free book on Mesh Networking - must read

Glenn

Thanks for the link.

I had a quick look through the TOC and the book and it looks excellent.....it is especially nice to see the DIY projects!

I know in my part of the world where the Internet is practically in every home, it is difficult to motivate HAMS to use Packet because of the speed challenge.....the only time the low speed RF networks are used is during emergencies and then the very low bandwidth and congestion is an issue.

This may be a good solution for both backbone and LAN.....I look forward to reading the book.

Regards
Bob
VA3RJS

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To: ntms-hsmm@yahoogroups.com
Sent: Sun, January 17, 2010 6:11:48 PM
Subject: Re: [ntms-hsmm] Free book on Mesh Networking - must read

If you have any interest at all in HSMM, you need to down load this free book.

<http://wndw. net/download. html>

This book tells how to set up a mesh network in a developing country, which is about 99% the same job as setting up a HSMM network in that you have to supply all the infrastructure.

This book tells you how to set up a nice mesh network.
They cover all the key things you need to know. They discuss using the WRT54G. Just use HSMM-MESH firmware instead of the similar firmware they mention and you have a 425 page book that tell you what to do to set up a mesh network.

Again, if you have ANY intrest in HSMM, you need to take a look at this free book. It pretty much explains what we have independently developed in the Austin HSMM SIG, except we have developed a our own custom firmware and done crystal mods.

-Glenn
kd5mfw@arrl. net

[Non-text portions of this message have been removed]

_____
Yahoo! Canada Toolbar: Search from anywhere on the web, and bookmark your favourite sites. Download it now http://ca.toolbar.yahoo.com.

[Non-text portions of this message have been removed]

Yahoo! Groups Links

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 8.5.432 / Virus Database: 270.14.148/2629 - Release Date: 01/17/10 19:35:00

[Non-text portions of this message have been removed]

1742. Re: [ntms-hsmm] Free book on Mesh Networking - must read

Yahoo group: DAWG-HSMM
Date: 2010-01-18 03:30:04 UTC
From: Glenn Currie
Topic: 1712 Message: 1742

Bob,

Glad you got a copy of the book. It is excellent. It provides an overview of about 98% of what we are doing here in Austin.

I have been prompted to write a book for ham on HSMM. I was working on it for a while until the doctors told me they think I have ALS and that is why I have no energy and have a variety of other problems.

The City of Austin Office of Emergency Management worked with us to get 2m and 440 packet in Austin area hospitals. We are approching 40 stations now. Where it makes sense in dense urban environments, we are adding broad band HSMM-MESH microwave links so we can hold up our own network between the hospitals as needed.

The military is using systems very similar to HSMM-MESH when they deploy to an "area of interest" now. So this is the new system of choice for emergencies - natural and man made.

As you go through the book you down loaded, let me know what you might think of the usefulness of a ham oriented book that covered similar topics but was written with a ham radio emphasis.

I have set aside all my many projects and focused on HSMM-MESH for the time I have left. I need to know what sorts of materials would provide the most help to put this technology "over the top" with hams.

It is used by millions of non hams and in a beefed form, by the military. Hams now have a state of the art broadband solution that works well. We have many more follow ons in the works.

I have focused on getting key software and firmware working and doing a limited amount of promotion. The largest push for promotion was at Hamcom last summer. K8OCL and I did a well attended 2 hour HSMM presentation.

John Champa, K8OCL also has documented our HSMM-MESH work in his HSMM column in CQ-VHF magazine. John has a lot of contacts and has been a big help in getting the word out.

We should have a regular web page on line soon, and I am waiting to have it in place, before putting on the next big publicity push.

Remind me if I sent you a copy of my Hamcom presentation. It covers our migration from the older packet systems to HSMM. We still have a packet every Sunday night and maintiain packet capability at all the

area hospitals. We have a couple of the original TexNet developers in our group. So we have significant packet activity in our area.

I have to carefully pick and choose where to dedicate my efforts to help promote HSMM with the time I have left. I have ideas on what is needed, but it is always good to poll interested people in what would help them the most.

Anybody on this mailing list that has suggestions on what would be of the most help to get you on the air with HSMM let me know what you think.

My fingers do not work so well any more so each posing is a significant effort and I would like to make sure I am "aimed" in the right direction.

The questions indicate interest in my pet project so they are appreciated. I do not wish to be curt with my replys but attempting to summarize some pretty complex stuff is not easy, and it takes me a while to get stuff typed in, so I do not do as much editing as I would like. I just have to send out some relative raw material or I will not get anything out at all.

--

Here is how I see HSMM-MESH and related systems growing.

We find someone in an area that has an interest and that ham gets with a few of his / her buddies and gets a few nodes up. Each of these "pocket nets" may be relatively isolated. We can link them with point to point links and also bridge to them like getting to an IRLP or Echolink repeater link. We can replace the wired Internet link with a ham RF link in some places as the adoption increases.

The pocket nets may have different roles to play in different places but share the ability to be linked.

We are using microwave. It works well with current gear in 5 to 10 mile hops. Some hams are islolated out in the country but go to QRZ.com and type in your call sign, where it offers to show you a grid map, click on it.

On the grid square map, click on "show hams" where I live there are 170 hams in my grid square, about 165 more than needed to support a mesh in my square.

Look at the grid squares in any metropolitian area in the U.S. and you will see the "Proof of theoritical HSMM-MESH viability" That is in most towns, there are enough hams to support a ham only mesh network. In some places the hams interested in HSMM may need to approach a ham that lives in a key spot and ask them to sponsor a node. This is not all that different than what hams have done for ages - find a fellow ham that has a site with a good place for a radio relay and see if they will sponsor a relay.

I fall back on the APRS system, if you only have a few people doing it, it is interesting, but these days, it is really quite a system. Like a linked repeater system, APRS just too a while to get to where it is now. HSMM could have a similar growth pattern.

There are may ways we could have gone with HSMM-MESH development, but we chose to go with one of the least expensive ways to get started and then get the firmware super charged to where it has capability that rivals military networks, and then introduce the initial, complete working system.

We have a lot more in the works, but the current HSMM-MESH will do a bang up good job for our original project of linking the hospitals. For the hospital link project, the rest is gravy. But as the capability of the system continues to grow, we have many more plans in the works.

Hospitals are located on major roads. Hams with mobile mesh nodes can act as bees passing pollen between flowers as they drive between fixed nodes. This physical store and forward technique is referred to as a "data mule". These techniques are in use in India, where buses are data mules. When they travel to a small town, all the stored emails going both ways are traded. The military likes it because it represents a profoundly robust data network that can continue to keep part of a network moving, even if it has delays, under the worst of conditions.

So the data mule system could be built on top of the hospital HSMM network. The "smart guys" that publish all the academic papers to the Internet are working on it. We just have to keep up with the litrature. That is how I was able to pick a development path for HSMM-MESH and why the system has key characteristics of military networks.

Some of the stuff is real complex. We worked on getting a lot of stuff like the auto linking of nodes working before we turned the system loose on the world. We continue to automate the tough tasks so the user pretty much just turns on the mesh node, plugs their laptop in the back of the WRT54G and they are linked or they need to move to where they can get a link. There is a minimum of messing with addressing and routing for most users to do.

Thanks for your interest and I would be happy to hear of projects you would like to do with HSMM. The potential is great, we just have to get the word out.

It is fun to be on one side of Austin, aiming a 24dB BBQ grill dish, coordinating on a 440 MHz simplex channel and saying "Ok I see your signal, let me adjust the antenna a bit. Your turn, adjust your antenn a bit and lock it down". Then turn on the IP video cameras and do some broadband (22MHz) QRP work, shooting though thousands of other signals and putting your signal exactly where you want it.

Our longest link with no amps on barefoot WRT54GL equipment is 15.56 miles. At 15 miles, you are reminded the earth is a sphere as the curvature becomes a significant consderation in your link.

There are many details, but, fortunately you really do not have to know that much to be safe, have fun, and not bother any one else.

I hope to support a few "spark plugs" in various areas and have them teach the other HSMM hams how to set up and enjoy a ham radio mesh network.

Kip is doing his HSMM session soon and has 22 hams signed up already. This is a super opportunity to learn a lot and walk out with a working HSMM station.

Perhaps we can work up such workshops at some of the ham radio conventions
and help people in other parts of the country get rolling.

All that help have my appreciation.

73's

-Glenn
kd5mfw@...

--- On Sun, 1/17/10, Bob Scanferla <va3rjs@...> wrote:

From: Bob Scanferla <va3rjs@...>
Subject: Re: [ntms-hsmm] Free book on Mesh Networking - must read
To: ntms-hsmm@yahoogroups.com
Date: Sunday, January 17, 2010, 7:16 PM

Glenn

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This may be a good solution for both backbone and LAN.....I look forward to reading the book.

Regards

Bob

VA3RJS

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From: Glenn Currie <kd5mfw_7@yahoo. com>

To: ntms-hsmm@yahoogrou ps.com

Sent: Sun, January 17, 2010 6:11:48 PM

Subject: Re: [ntms-hsmm] Free book on Mesh Networking - must read

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developed in the Austin HSMM SIG, except we have developed a our

own custom firmware and done crystal mods.

-Glenn

kd5mfw@arrl. net

[Non-text portions of this message have been removed]

Yahoo! Canada Toolbar: Search from anywhere on the web, and bookmark your favourite sites. Download it now

http://ca.toolbar. yahoo.com.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1743. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-18 04:30:39 UTC
From: Mr Doug -
Topic: 1712 Message: 1743

Glenn,

I was really sorry to hear about your health issues. Lets hope the doctors are wrong.

You mentioned a high gain omni antenna. Do you have suggestions for specific antennas?

73 Doug

From: Glenn Currie <kd5mfw_7@...>
To: ntms-hsmm@yahoogroups.com
Sent: Sun, January 17, 2010 7:45:08 PM
Subject: Re: [ntms-hsmm] New togroup, need info

Doug,

Handling multiple Internet connections into one mesh is not handled automatically in the current firmware. It is one of the many things on the list for later firmware. We made the one link trivial and more code is needed to sort out multiple links, do load sharing etc, and there is only so much room in the memory of a WRT54G for code.

We typically choose to link to the Internet via our private Internet link in the City of Austin EOC. This link has redundant connections to the Internet and is completely separate from all other Internet links in the building.

Field operators can check if there is a live link and inject one as needed. If they see more than one link they can contact operators and get them to add or remove links as needed.

Sorting out multiple Internet links, determining dynamic Quality of Service and load splitting are non trivial tasks, but are on the "want" list for future firmware.

The WRT54G normally runs with two antennas in diversity mode, it simply switches (very rapidly) between the two antennas and talks to a node on the antenna on which it received your last signal. Aim two directional antennas in two different directions, and the radio will sort it out automatically, choosing the correct antenna. No user intervention needed.

If you need more directions add more mesh nodes aim the directional antennas and cross link them with the wired connections on the back of the mesh nodes.

We are getting into discussing a mixed network. We find with 11 dB omni antennas WRT54G routers will link at over 7 miles with no amp. Make it 3 to 5 miles between nodes and you operate as a true mesh when you have a minimum of 3 nodes.

If you have less than 3 nodes in your network, you have, by definition, a point to point link. The same firmware will work fine, but you need more nodes within RF

range to have an actual mesh.

Distances mentioned are with good Line Of Sight
paths with clear Fresnel zones. Amps do little good if the path is not there, unless you have enough power to burn a hole in what is in the way. If so, when the smoke clears you may have a better link. One watt bidirectional 2.4GHz amps are sold in the Austin area for $69.00 by Discount Electronics. They are on the web. If you have to run more than 0.5 to 1 watt you need to seek a better path, the power is just going to make a mess and not get your signal where you want it.

We do 10 miles, at will with no amps across hundreds of thousands of cordless phones, wireless computer networks (thousands around the U.T. campus) and microwave ovens. Just use high gain directional antennas, aim them carefully (a whole presentation) and clamp them securely in place. These links are made a will with no amps.

If the links get too far apart, you are talking about a point to point link.
You could put up multiple radios at each end and if one died the others would automatically take over. So put two like mesh nodes on each end, with independent power and antennas, and you have a redundant link with auto switch over.

For 1 to 5 mile hops we recommend vertical polarization of omni directional antennas to form a true mesh. If you set up a point to point link we recommend horizontal polarization.

-Glenn

--- On Sun, 1/17/10, Mr Doug - <dsc3507@yahoo. com> wrote:

From: Mr Doug - <dsc3507@yahoo. com>
Subject: Re: [ntms-hsmm] New togroup, need info
To: ntms-hsmm@yahoogrou ps.com
Date: Sunday, January 17, 2010, 5:33 PM

Thanks again Glenn and I am downloading the book you recommended as I write this.

I did not mean to imply that there was a problem with not using AMPRNET addresses. In fact in face of the way things work in Mesh and also in real life the AMPR addresses may really not be that important. I think it is turf that they are desparately hanging onto and it made more sense in the RF packet days when we were not that Internet connected. The problem with a class A network like AMPRNET is that it really only should have one connection to its superior network. I am not sure how that would work in the Mesh topology. It probably would not. If you originate at 44.x.x.x packet on the Internet it goes to a computer at UCSD.edu and then if there is routing there via a virtual connection to that particular piece of the 44 network. There is very little real RF out there anymore. At one time we had hundreds of AMPR TCP/Ip station just here in Philadelphia and none today.

How does Mesh handle multiple Internet connections within a single Mesh network? It seems that for redundancy that would be important.

How does Mesh handle the situation where you, for example, have 3 nodes, A,B,C in a triangle, all we will say 10 miles apart, good path. If you use a direction antenna at each node, it would point at just one other node. Would you need two 54's and two antennas at

each site? If so how would the two connect? Via cable or residual RF?

73 Doug

---------- --------- --------- --

From: Glenn Currie <kd5mfw_7@yahoo. com>

To: ntms-hsmm@yahoogrou ps..com

Sent: Sun, January 17, 2010 5:53:05 PM

Subject: Re: [ntms-hsmm] New togroup, need info

Doug,

The HSMM-MESH is a cutting edge self configuring, self healing network. It is new stuff and a very, very, very large world in itself.

As configured, there is absolutely nothing that would keep your from using HSMM-MESH, unaltered, in your organization. There is also nothing whatsoever, that would keep you from linking into AMPR IP addresses.

We are currently using IP v4 with special code to take care of things IP v4 never considered or provides a solution for. We are currently working to move to IP v6.

IPv6 has some provisions for mobile links that come and go.

If you get into the details of some key aspects of allowing for mobile and mostly not connected nodes in a network you will see what the academics are working on with DARPA on Disruption Tolerant Networks, Mobile Ad Hoc Networks and similar networks like HSMM-MESH(TM)

Some of the core things of interest to us have to do with dynamic automatic linking and dynamic automatic rerouting of streams of data.

With multiple mesh nodes linked, if one node goes down, the mesh automatically routes the data through another mesh node, with absolutely no user intervention.

The mesh network is NOT the Internet. Although it can be spread out, due to the distances some of the links can have, it is useful to view it as a private network in one room of your house.

So the vast majority of what the mesh network does has nothing to do with AMPR addresses. Once the data made it to a network where AMPR has a context,

you can pass the data using AMPR addresses if you wish.
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The 4 port switch connections are one network and tie into existing networks, using conventional computer LAN network techniques. The wired WAN connection can be used to tie into the Internet using traditional WAN techniques.
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HSMM-MESH(TM) firmware is different than the way they work with the factory firmware. If you check into the 802.11b specification, you will see that all nodes using an Ad Hoc connection, use the same SSID. The OLSR mesh scheme uses a modified Ad Hoc link model. HSMM-MESH is what we chose to use for our system. Again this is part of the IEEE 802.11 spec. If you change this, and you can, your system will not link to ours. That may be what you want, but you need to understand the implications.

So we had to pick a SSID, but it is related to an 802.11 spec requirement, and not an attempt to brand the system to any organization. That is why we picked HSMM-MESH as the name to have a generic name.

The name can be changed to the name of your organization. That is configurable on the set up web page provided by HSMM-MESH firmware, served up from inside the WRT54G. We can and have set up multiple mesh networks with different network names. The channel you operate on can be changed as well.

But as one

example of the extreme flexibility of the HSMM-MESH design, is that you can have two mesh networks, operating on the same channel, using different SSIDs. It works. There are collisions as you would expect but I have run two different mesh networks on the same channel and passed live video over both of them at the same time, and it works fine. You have to get out some test gear to see the collisions.

As I said, this is more of new world, than just picking some addresses and putting your call sign in as the SSID. Working on channels 1 - 6 and setting the SSID to your call sign IS HSMM. It is just a simple version. We are doing a bit of a different type of HSMM. There are countless other ways things could be done and still be considered HSMM.

The changes to the WRT54G firmware have involved some significant heavy lifting to come up with HSMM-MESH(TM) and that is why we trade mark the system. We make it available for free, but it is not just a name, it is a quite involved system, developed over a period of about 8 years. We kept a low profile until we had a

complete working system.

If you will use the system in the way we have designed, it, your systems will link.

You are free to make whatever changes you like, but if it does not follow

HSMM-MESH guidelines, we cannot help you or guarantee, that data can be passed,

your are on your own. Make sure that is what you want to do.

For example, you can go in and make a bunch of changes to APRS, but if you

do not follow the design guide lines, your changes may be unique to your system and

not work with the rest of the APRS system.

So the place where AMPR probably would make sense to use, is on the WAN port. Since it uses traditional networking techniques, no changes are needed.

Set the address to an AMPR address if you like, and deal with the benefits /

implications.

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area hospitals and other "sites of interest". Being in the Capitol city means

there are quite a few "sites of interest". So ham ecomm may be on the way

out in many places, HSMM-MESH will cover the Austin area.

Also, I have not mentioned mobile links. With the fast auto linking, it is possible

to pass messages as we drive by a fixed HSMM-MESH site or even another mobile

unit. We have passed live video and many megabytes of files as some of the key

developers travel to and from the Texas Star Party. Live video between vehicles

at 80mph on I-10 in west Texas is a hoot.

The HSMM-MESH developers work with other hams at the Texas Star Party to pipe

in the Internet to a guest ranch near Ft. Davis in west Texas. The TSP attracts about

800 astronomers to the foot hills around the McDonald Observatory (where I used to

work). The hams bring in the Internet then set up a hybrid 802.11a / 802.11g

network to provide Internet access for all the astronomers for a week. It has been

a great training ground for our mesh development work.

Do a google search for Texas Star Party. We run a special events station for a week

from the very well equipped TSP ham shack on the Prude Guest Ranch.

To vastly expand the flexibility of the system as well as making it more complex, any

of the wired network connections on the WRT54G mesh nodes could be connected

to other RF network system. As flexibility and how many different ways the existing

HSMM-MESH system could be configured grows, complexity approaches infinity.

A limited subset of all possible ways to configure the system are the ones useful to focus on.

Again the information on the wiki and the many links to other references, covers

how the system works.

I hope this brief summary is helpful. Beyond this, it is probably good to dig into

the info on the wiki.

Thanks for your interest.

-Glenn

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[Non-text portions of this message have been removed]

1744. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-18 05:02:48 UTC
From: Glenn Currie
Topic: 1712 Message: 1744

Doug,

I buy most of my antennas from www.fab-corp.com. They are hams.
Tell them you are a ham an you may get a discount.

<http://www.fab-corp.com/product.php?productid=2425&cat=250&page=1>

is a pointer to a good solid performer. We call it the "baseball bat" as it
is has a super sturdy fiberglass radome on it.

Be careful with the ~ 15dB gain antennas that fab-corp sells for 2.4 GHz.

Some are available with a 12 degree down tilt on the pattern, which
generally looks like a donut. Make sure the pattern goes where you intend.

For a compact directional AD5OO and I use a MFJ stamped metal yaggi.
It cost about $30.00, looks like crap, make that, MFJ standard construction.
You need to put it in a radome to keep the wind from blowing it around.
Despite what it looks like it is a FANTASTIC performer - works like a champ.

<http://www.mfjenterprises.com/Product.php?productid=MFJ-1800>

I have a old Electronic News Gathering van with a 40 foot pneumatic mast.
When I put the 15 dB Comet omni on it and run the mast up. There is a dead
spot right under the antenna and around the van.

The simpler "baseball bat" has abot 10 times the fiberglass in the radome and
we have found it to work well. The basic omni pattern is a donut and I do not
end up "blacking my self out" down in the radio van.

"Moby Dick" is a 1987 Ford 350 1 ton van Made back when gas was cheap.
It has a 460 cu in. V-8 with a big 4 barrel carburator. It rides like a tank and
the big engine will hural the big white box at a truly scarey speed down the road.
It also has a 6 kw water cooled Honda Generator.

I bought it off a felow ham microwaver, Bob Templin who recently went SK.
He got it off a Houston TV station when they upgraded. Bob wanted someone
who would appreciate the mast and not just junk it. Moby is street legal, and the
mast works, all else is what you would expect from a 1987 1 ton van.

The mast itself sets on berings and can be turned. It is a microwave van and
that is what I use it for. I loan it out to some of my fellow HSMM developers
when I cannot get out in it. It is available for emergency ham radio use in
our area. If there is an emergency, either I will have it in service or will give the
keys to another ham and have them put it in service. It will not be idle during
an emergency.

During regular times I just use it as a 40' mast at the house. I had it up today.

So you can see I am pretty serious about making this microwave HSMM system work. I have focused all my resources on making it go.

As with all radios, a good antenna makes a big difference.

It is big and a bother to move at times but I usually use a 24dB BBQ grill dish with a 11dB omni above it on the mast on Moby Dick.

Other free good stuff

download inSSIDer. It runs on windows and shows you 802.11 wireless devices in your area. This is a must have. Also google and down load the older "NetStumbler" if you do not have it already. Load this sw on your laptop hook up an external antenna for your wi-fi card and hook up a GPS and drive around collecting the coordinates of wi-fi devices in your area. Very good to know what you are working with in your area. Some know of these free programs, but some do not and they are too good to pass up. Super handy.

<http://www.metageek.net/products/inssider/download>

<http://www.netstumbler.com/downloads/>

As for the ALS, it causes me to focus and appreciate each day.
Help me get this HSMM stuff over the top and we will declare victory ;-)

-Glenn

--- On Sun, 1/17/10, Mr Doug - <dsc3507@...> wrote:

From: Mr Doug - <dsc3507@...>
Subject: Re: [ntms-hsmm] New togroup, need info
To: ntms-hsmm@yahoogroups.com
Date: Sunday, January 17, 2010, 10:30 PM

Glenn,

I was really sorry to hear about your health issues. Lets hope the doctors are wrong.

You mentioned a high gain omni antenna. Do you have suggestions for specific antennas?

73 Doug

---------- --------- --------- --

From: Glenn Currie <kd5mfw_7@yahoo. com>

To: ntms-hsmm@yahoogrou ps.com

Sent: Sun, January 17, 2010 7:45:08 PM

Subject: Re: [ntms-hsmm] New togroup, need info

Doug,

Handling multiple Internet connections into one mesh is not handled automatically

in the current firmware. It is one of the many things on the list for later firmware.
We made the one link trivial and more code is needed to sort out multiple links,
do load sharing etc, and there is only so much room in the memory of a WRT54G
for code.
We typically choose to link to the Internet via our private Internet link in the City of
Austin EOC. This link has redundant connections to the Internet and is completely
separate from all other Internet links in the building.
Field operators can check if there is a live link and inject one as needed. If they
see more than one link they can contact operators and get them to add or remove
links as needed.
Sorting out multiple Internet links, determining dynamic Quality of Service
and load splitting are non trivial tasks, but are on the "want" list for future firmware.
The WRT54G normally runs with two antennas in diversity mode, it simply
switches (very rapidly) between the two antennas and talks to a node on the
antenna on which it received your last signal. Aim two directional antennas in
two different directions, and the radio will sort it out automatically, choosing
the correct antenna. No user intervention needed.
If you need more directions add more mesh nodes aim the directional antennas
and cross link them with the wired connections on the back of the mesh nodes.
We are getting into discussing a mixed network. We find with 11 dB omni antennas
WRT54G routers will link at over 7 miles with no amp. Make it 3 to 5 miles between
nodes and you operate as a true mesh when you have a minimum of 3 nodes.
If you have less than 3 nodes in your network, you have, by definition, a point to
point link. The same firmware will work fine, but you need more nodes within RF
range to have an actual mesh.
Distances mentioned are with good Line Of Sight
paths with clear Fresnel zones. Amps do little good if the path is not there, unless
you have enough power to burn a hole in what is in the way. If so, when the smoke
clears you may have a better link. One watt bidirectional 2.4GHz amps are sold in

the Austin area for $69.00 by Discount Electronics. They are on the web. If you have to run more than 0.5 to 1 watt you need to seek a better path, the power is just going to make a mess and not get your signal where you want it.

We do 10 miles, at will with no amps across hundreds of thousands of cordless phones, wireless computer networks (thousands around the U.T. campus) and microwave ovens. Just use high gain directional antennas, aim them carefully (a whole presentation) and clamp them securely in place. These links are made a will with no amps.

If the links get too far apart, you are talking about a point to point link.

You could put up multiple radios at each end and if one died the others would automatically take over. So put two like mesh nodes on each end, with independent power and antennas, and you have a redundant link with auto switch over.

For 1 to 5 mile hops we recommend vertical polarization of omni directional antennas to form a true mesh. If you set up a point to point link we recommend horizontal polarization.

-Glenn

--- On Sun, 1/17/10, Mr Doug - <dsc3507@yahoo. com> wrote:

From: Mr Doug - <dsc3507@yahoo. com>

Subject: Re: [ntms-hsmm] New togroup, need info

To: ntms-hsmm@yahoogrou ps.com

Date: Sunday, January 17, 2010, 5:33 PM

Thanks again Glenn and I am downloading the book you recommended as I write this.

I did not mean to imply that there was a problem with not using AMPRNET addresses. In fact in face of the way things work in Mesh and also in real life the AMPR addresses may really not be that important. I think it is turf that they are desparately hanging onto and it made more sense in the RF packet days when we were not that Internet connected. The problem with a class A network like AMPRNET is that it really only should have one connection to its superior network. I am not sure how that would work in the Mesh topology. It probably would not. If you originate at 44.x.x.x packet on the Internet it goes to a computer at UCSD.edu and then if there is routing there via a virtual connection to that particular piece of the 44 network. There is very little real RF out there anymore. At one time we had hundreds of AMPR TCP/Ip station just here in Philadelphia and none today.

How does Mesh handle multiple Internet connections within a single Mesh network? It seems that for redundancy that would be important.

How does Mesh handle the situation where you, for example, have 3 nodes, A,B,C in a triangle, all we will say 10 miles apart, good path. If you use a direction antenna at each node, it would point at just one other node. Would you need two 54's and two antennas at each site? If so how would the two connect? Via cable or residual RF?

73 Doug

---------- --------- --------- --

From: Glenn Currie <kd5mfw_7@yahoo. com>

To: ntms-hsmm@yahoogrou ps..com

Sent: Sun, January 17, 2010 5:53:05 PM

Subject: Re: [ntms-hsmm] New togroup, need info

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DARPA on Disruption Tolerant Networks, Mobile Ad Hoc Networks and similar

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and dynamic automatic rerouting of streams of data.

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Thanks for your interest.

-Glenn

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1745. My location

Yahoo group: DAWG-HSMM
Date: 2010-01-18 05:22:23 UTC
From: Mr Doug -
Topic: 1712 Message: 1745

Just to reinforce you contention about the number of hams in a metropolitan area. This is JUST a portion of the norther suburbs of Philadelphia. My location is the black dot at the top center one square down. The direction we would most want to go is to the south and for at least 50 miles it would be close to or even more dense.

Doug

[Non-text portions of this message have been removed]

1746. Re: [ntms-hsmm] My location

Yahoo group: DAWG-HSMM
Date: 2010-01-18 06:12:44 UTC
From: Glenn Currie
Topic: 1712 Message: 1746

Yes, please encourage people to check out the grid grid squares in an area they might like to deploy a mesh, and see how many hams in in most cities.

It is not a done deal, but the basic resource for a ham only mesh is in place. It would take a while, but hams could have pocket nets all over U.S. cites and link them via wired Internet connections.

-Glenn

--- On Sun, 1/17/10, Mr Doug - <dsc3507@...> wrote:

From: Mr Doug - <dsc3507@yahoo.com>
Subject: [ntms-hsmm] My location
To: ntms-hsmm@yahoogroups.com
Date: Sunday, January 17, 2010, 11:22 PM

Just to reinforce you contention about the number of hams in a metropolitan area. This is JUST a portion of the norther suburbs of Philadelphia. My location is the black dot at the top center one square down. The direction we would most want to go is to the south and for at least 50 miles it would be close to or even more dense.

Doug

[Non-text portions of this message have been removed]

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1747. Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 06:36:03 UTC
From: Kipton Moravec
Topic: 1747 Message: 1747

Some of the people from out of town have asked for the presentation materials. The presentation for this next seminar are not finished.

But from last year they are Located:
http://www.kdream.com/hsmm/HSMM_Seminar_August22.pdf

(Warning 16 MB) :)

Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1748. Re: [ntms-hsmm] Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 06:38:51 UTC
From: Glenn Currie
Topic: 1747 Message: 1748

Kip,

Thanks for posting the slides. Perhaps I checked before you had
time to post them, but I got an error when trying to down load the file.

-Glenn

--- On Mon, 1/18/10, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: [ntms-hsmm] Links to last years Seminar Slides
To: ntms-hsmm@yahoogroups.com
Date: Monday, January 18, 2010, 12:36 AM

Some of the people from out of town have asked for the presentation

materials. The presentation for this next seminar are not finished.

But from last year they are Located:

http://www.kdream. com/hsmm/ HSMM_Seminar_ August22. pdf

(Warning 16 MB) :)

Kip

--

Kipton Moravec AE5IB .- . ... -...

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[Non-text portions of this message have been removed]

1749. Re: [ntms-hsmm] Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 06:50:19 UTC
From: Kipton Moravec
Topic: 1747 Message: 1749

Sorry about the Typo

http://www.kdream.com/hsmm/HSMM_Seminar_August_22.pdf

This one should work.
Kip

On Sun, 2010-01-17 at 22:38 -0800, Glenn Currie wrote:
> Kip,
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> Thanks for posting the slides. Perhaps I checked before you had
> time to post them, but I got an error when trying to down load the file.
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> -Glenn
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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1750. Re: [ntms-hsmm] Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 06:50:32 UTC
From: Glenn Currie
Topic: 1747 Message: 1750

Kip,

It is tremendously helpful to have you do these HSMM seminars.

We hope to have our web page on line soon. At that time I will
consider new ways to promote HSMM. Part of the answer is to
establish an "expert" in each geographic area. Travel beyond
some distance is just too much to overcome.

Your training materials could be part of a package to supply
area "experts". Give it some consideration. I want to find a way
to support HSMM hams in other states and I do not have all
the answers yet but documentation will be needed.

Would it be possible to video tape your presentation?
Perhaps we could create a DVD starter kit.

Give it some consideration and let me know if you
have any ideas.

Thanks,

-Glenn

--- On Mon, 1/18/10, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: [ntms-hsmm] Links to last years Seminar Slides
To: ntms-hsmm@yahoogroups.com
Date: Monday, January 18, 2010, 12:36 AM

Some of the people from out of town have asked for the presentation

materials. The presentation for this next seminar are not finished.

But from last year they are Located:

http://www.kdream. com/hsmm/ HSMM_Seminar_ August22. pdf

(Warning 16 MB) :)

Kip

--

Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."

--Mark Twain

[Non-text portions of this message have been removed]

1751. Re: [ntms-hsmm] Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 06:51:37 UTC
From: Glenn Currie
Topic: 1747 Message: 1751

Kip,

Thanks, that one is working. The file is down loading now.

-Glenn

--- On Mon, 1/18/10, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: Re: [ntms-hsmm] Links to last years Seminar Slides
To: ntms-hsmm@yahoogroups.com
Date: Monday, January 18, 2010, 12:50 AM

Sorry about the Typo

http://www.kdream. com/hsmm/ HSMM_Seminar_ August_22. pdf

This one should work.

Kip

On Sun, 2010-01-17 at 22:38 -0800, Glenn Currie wrote:

> Kip,

>

> Thanks for posting the slides. Perhaps I checked before you had

> time to post them, but I got an error when trying to down load the file.

>

> -Glenn

>

> --- On Mon, 1/18/10, Kipton Moravec <kip@kdream.com> wrote:

>

> From: Kipton Moravec <kip@...>

> Subject: [ntms-hsmm] Links to last years Seminar Slides

> To: ntms-hsmm@yahoogrou ps.com

> Date: Monday, January 18, 2010, 12:36 AM

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> Some of the people from out of town have asked for the presentation

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> materials. The presentation for this next seminar are not finished.

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> But from last year they are Located:

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> http://www.kdream. com/hsmm/ HSMM_Seminar_ August22. pdf

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>

> (Warning 16 MB) :)

>

>

>

> Kip

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>

>

--

Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."

--Mark Twain

[Non-text portions of this message have been removed]

1752. Re: [ntms-hsmm] Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 06:52:25 UTC
From: Mr Doug -
Topic: 1747 Message: 1752

I would be willing to give presentations in the Philadelphia area.

Doug

_____
From: Glenn Currie <kd5mfw_7@...>
To: ntms-hsmm@yahoogroups.com
Sent: Mon, January 18, 2010 1:50:32 AM
Subject: Re: [ntms-hsmm] Links to last years Seminar Slides

Kip,

It is tremendously helpful to have you do these HSMM seminars.

We hope to have our web page on line soon. At that time I will
consider new ways to promote HSMM. Part of the answer is to
establish an "expert" in each geographic area. Travel beyond
some distance is just too much to overcome.

Your training materials could be part of a package to supply
area "experts". Give it some consideration. I want to find a way
to support HSMM hams in other states and I do not have all
the answers yet but documentation will be needed.

Would it be possible to video tape your presentation?
Perhaps we could create a DVD starter kit.

Give it some consideration and let me know if you
have any ideas.

Thanks,

-Glenn

--- On Mon, 1/18/10, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: [ntms-hsmm] Links to last years Seminar Slides
To: ntms-hsmm@yahoogrou ps.com
Date: Monday, January 18, 2010, 12:36 AM

Some of the people from out of town have asked for the presentation

materials. The presentation for this next seminar are not finished.

But from last year they are Located:

http://www.kdream. com/hsmm/ HSMM_Seminar_ August22. pdf

(Warning 16 MB) :)

Kip

--

Kipton Moravec AE5IB ..- . ... -...

"Always do right; this will gratify some people and astonish the rest."

--Mark Twain

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1753. Re: [ntms-hsmm] Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 06:52:44 UTC
From: Glenn Currie
Topic: 1747 Message: 1753

Sorry,

Nothing bad in this message but it did not need to go to the group.

-Glenn

--- On Mon, 1/18/10, Glenn Currie <kd5mfw_7@...> wrote:

From: Glenn Currie <kd5mfw_7@...>
Subject: Re: [ntms-hsmm] Links to last years Seminar Slides
To: ntms-hsmm@yahoogroups.com
Date: Monday, January 18, 2010, 12:50 AM

Kip,

It is tremendously helpful to have you do these HSMM seminars.

We hope to have our web page on line soon. At that time I will

consider new ways to promote HSMM. Part of the answer is to

establish an "expert" in each geographic area. Travel beyond

some distance is just too much to overcome.

Your training materials could be part of a package to supply

area "experts". Give it some consideration. I want to find a way

to support HSMM hams in other states and I do not have all

the answers yet but documentation will be needed.

Would it be possible to video tape your presentation?

Perhaps we could create a DVD starter kit.

Give it some consideration and let me know if you

have any ideas.

Thanks,

-Glenn

--- On Mon, 1/18/10, Kipton Moravec <kip@kdream.com> wrote:

From: Kipton Moravec <kip@...>

Subject: [ntms-hsmm] Links to last years Seminar Slides

To: ntms-hsmm@yahoogrou ps.com

Date: Monday, January 18, 2010, 12:36 AM

Some of the people from out of town have asked for the presentation

materials. The presentation for this next seminar are not finished.

But from last year they are Located:

http://www.kdream. com/hsmm/ HSMM_Seminar_ August22. pdf

(Warning 16 MB) :)

Kip

--

Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."

--Mark Twain

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1754. Re: [ntms-hsmm] Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 06:50:58 UTC
From: Kipton Moravec
Topic: 1747 Message: 1754

http://www.kdream.com/hsmm/HSMM_Seminar_August_22.pdf

Missed the _ between August and 22

Kip

On Mon, 2010-01-18 at 00:36 -0600, Kipton Moravec wrote:
> Some of the people from out of town have asked for the presentation
> materials. The presentation for this next seminar are not finished.
>
> But from last year they are Located:
> http://www.kdream.com/hsmm/HSMM_Seminar_August22.pdf
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> (Warning 16 MB) :)
>
> Kip
>
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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1755. Re: [ntms-hsmm] Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 06:58:16 UTC
From: Kipton Moravec
Topic: 1747 Message: 1755

I have been approached by HAMCOM Presentation Person, John Beadles to make it a Webinar. I do not have the equipment to do it. However I could Videotape it.

Kip

On Sun, 2010-01-17 at 22:50 -0800, Glenn Currie wrote:
> Kip,
>
> It is tremendously helpful to have you do these HSMM seminars.
>
> We hope to have our web page on line soon. At that time I will
> consider new ways to promote HSMM. Part of the answer is to
> establish an "expert" in each geographic area. Travel beyond
> some distance is just too much to overcome.
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> Your training materials could be part of a package to supply
> area "experts". Give it some consideration. I want to find a way
> to support HSMM hams in other states and I do not have all
> the answers yet but documentation will be needed.
>
> Would it be possible to video tape your presentation?
> Perhaps we could create a DVD starter kit.
>
> Give it some consideration and let me know if you
> have any ideas.
>
> Thanks,
>
> -Glenn
>
> --- On Mon, 1/18/10, Kipton Moravec <kip@...> wrote:
>
> From: Kipton Moravec <kip@...>
> Subject: [ntms-hsmm] Links to last years Seminar Slides
> To: ntms-hsmm@yahoogroups.com
> Date: Monday, January 18, 2010, 12:36 AM
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> Some of the people from out of town have asked for the presentation
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> http://www.kdream. com/hsmm/ HSMM_Seminar_ August22. pdf
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> (Warning 16 MB) :)
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> Kip
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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1756. Re: [ntms-hsmm] Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 07:05:48 UTC
From: Glenn Currie
Topic: 1747 Message: 1756

Oh well, just as well it went out.

We need to get enough info to trainers that are not in the Austin or Dallas area. It is interesting stuff, but it does take time to work through the slides, find a meeting place and do the presentation.

What I hope to do is work up presentation materials and continue to refine and update them.

Some folks are well to do and buying a couple of WRT54GL routers for testing and giving demos, is not a problem.

I buy used but working WRT54G routers from the Goodwill Computer store here in Austin, Tx. Goodwill is a job training outfit. They got linked up with Dell Computers here in the Austin area (actually the head office is in Round Rock, a few blocks from my house) to do computer recycling.

Goodwill stores usually resell used household items and cloths, but there is a special used computer store here in Austin. Sometime all is junk and sometimes you find some real deals.

I buy used routers for $25.00 plus tax. I eat the tax and sell the routers for $25.00 to help people get on the air cheaply.

I have let a lot of people borrow gear for testing and demos. Millions of the WRT54G routers were made and I have found good homes for about 40 used ones. I may be able to make a few routers available in a teaching / demo kit.

The WRT54GL is still made and has the best hardware inside, but it is $60.00 and you need two just to do any testing and 3 to form a minimal mesh where you can see routing change at times.

My supply ebbs and flows. Right now I am a bit dry but hope to see more used routers show up at Goodwill as new gear received at Christmas gets installed.

Thanks for your interest. We have to continue to find new ways to get the HSMM info out.

-Glenn
--- On Mon, 1/18/10, Mr Doug - <dsc3507@...> wrote:

From: Mr Doug - <dsc3507@...>
Subject: Re: [ntms-hsmm] Links to last years Seminar Slides
To: ntms-hsmm@yahoogroups.com

Date: Monday, January 18, 2010, 12:52 AM

I would be willing to give presentations in the Philadelphia area.

Doug

---------- --------- --------- --

From: Glenn Currie <kd5mfw_7@yahoo. com>

To: ntms-hsmm@yahoogrou ps.com

Sent: Mon, January 18, 2010 1:50:32 AM

Subject: Re: [ntms-hsmm] Links to last years Seminar Slides

Kip,

It is tremendously helpful to have you do these HSMM seminars.

We hope to have our web page on line soon. At that time I will

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establish an "expert" in each geographic area. Travel beyond

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area "experts". Give it some consideration. I want to find a way

to support HSMM hams in other states and I do not have all

the answers yet but documentation will be needed.

Would it be possible to video tape your presentation?

Perhaps we could create a DVD starter kit.

Give it some consideration and let me know if you

have any ideas.

Thanks,

-Glenn

--- On Mon, 1/18/10, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>

Subject: [ntms-hsmm] Links to last years Seminar Slides

To: ntms-hsmm@yahoogrou ps.com

Date: Monday, January 18, 2010, 12:36 AM

Some of the people from out of town have asked for the presentation materials. The presentation for this next seminar are not finished. But from last year they are Located:

http://www.kdream. com/hsmm/ HSMM_Seminar_ August22. pdf

(Warning 16 MB) :)

Kip

--

Kipton Moravec AE5IB ..- . ... -...

"Always do right; this will gratify some people and astonish the rest."

--Mark Twain

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1757. Re: [ntms-hsmm] Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 07:11:10 UTC
From: Glenn Currie
Topic: 1747 Message: 1757

Well John helped me with all his HSMM presentations.

I have a friend that does professional audio and video mastering.

If you make a tape of the seminar, we can try to edit it and then
burn DVD copies. Some on the HSMM lists have offered to host
large files (a video DVD would be gigabytes), but we could
mail them out.

I am still in the queue to do a DVD overview of HSMM-MESH.

I am trying to figure out how to best schedule my efforts to do the
most good in getting the word out on HSMM. Perhaps I should
pull the HSMM DVD project off the back burner and make it more
of a priority.

-Glenn

--- On Mon, 1/18/10, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: Re: [ntms-hsmm] Links to last years Seminar Slides
To: ntms-hsmm@yahoogroups.com
Date: Monday, January 18, 2010, 12:58 AM

I have been approached by HAMCOM Presentation Person, John Beadles to

make it a Webinar. I do not have the equipment to do it. However I could

Videotape it.

Kip

On Sun, 2010-01-17 at 22:50 -0800, Glenn Currie wrote:

> Kip,

>

> It is tremendously helpful to have you do these HSMM seminars.

>

> We hope to have our web page on line soon. At that time I will

> consider new ways to promote HSMM. Part of the answer is to

> establish an "expert" in each geographic area. Travel beyond

> some distance is just too much to overcome.

>

> Your training materials could be part of a package to supply

> area "experts". Give it some consideration. I want to find a way

> to support HSMM hams in other states and I do not have all

> the answers yet but documentation will be needed.

>

> Would it be possible to video tape your presentation?

> Perhaps we could create a DVD starter kit.

>

> Give it some consideration and let me know if you

> have any ideas.

>

> Thanks,

>

> -Glenn

>

> --- On Mon, 1/18/10, Kipton Moravec <kip@...> wrote:

>

> From: Kipton Moravec <kip@...>

> Subject: [ntms-hsmm] Links to last years Seminar Slides

> To: ntms-hsmm@yahoogrou ps.com

> Date: Monday, January 18, 2010, 12:36 AM

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> Some of the people from out of town have asked for the presentation

>

> materials. The presentation for this next seminar are not finished.

>

>

>

> But from last year they are Located:

>

> http://www.kdream. com/hsmm/ HSMM_Seminar_ August22. pdf

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> (Warning 16 MB) :)

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> Kip

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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."

--Mark Twain

[Non-text portions of this message have been removed]

1758. Re: [ntms-hsmm] Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 07:20:15 UTC
From: Glenn Currie
Topic: 1747 Message: 1758

Doug,

I sent you an email off line. Sorry to post this to the group, but you had mentioned that my messages were going into your spam filter. Take a look and see that you got a new message form me.

And if others what to try to help promote HSMM in your area. Let me know, we are trying to figure out how to get the info out better to hams that are not in Texas.

We could consider doing seminars at some of the larger hamfests if that would help.

Any of you out of Texas folks make it down for Hamcom?

Different types of presentations work better for some people than others. Would a power point on DVD with a few video shots of equipment and operating methods be helpful? It is work to produce such a thing. If it would not be all that helpful, then it would be better to put the effort in on something else.

Ideas are welcome. Thanks for your interest.

-Glenn
kd5mfw@...t

[Non-text portions of this message have been removed]

1759. Antenna connection

Yahoo group: DAWG-HSMM
Date: 2010-01-18 07:22:08 UTC
From: Mr Doug -
Topic: 1759 Message: 1759

Assuming a WRT54 in waterproof box with 11dbi omni. What is the best connection method? Do you put a bulkhead on box or just bring coax out the bottom and seal? What type of coax? Do you use an N to tnc? or whatever is on the router, adapter?

Doug

1760. Re: [ntms-hsmm] Antenna connection

Yahoo group: DAWG-HSMM
Date: 2010-01-18 07:36:59 UTC
From: Glenn Currie
Topic: 1759 Message: 1760

Doug,

At www.fab-corp.com, look at the cable section for "pig tails" . These are short cables used to go from the router and bulkhead mount to the bottom of the box.

The WRT54GL has Reverse TNC male connectors. Get Reverse TNC male to N female bulkhead "pig tails". Mount the N female through a hole in the bottom of the water proof box.

Run a N male / N male feet line to the external antenna.

All the good sturdy outdoor antennas have an N female connector.

Wrap all connectors in sealing tape.

The other popular connector on the back of wireless routers is the Reverse Polarity SMA connector.

The Reverse TNC and Reverse SMA connectors are similar to standard TNC and SMA connectors, but the pins are reversed in the connectors.

Initially the FCC told the Part -15 makers to put non standard connectors on the devices so it would not be straightforward for non licensed users to add external antennas.

Ironically now, there are probably orders of magnitude more of the "non standard" Reverse TNC and SMA conectors than the original standard connectors.

Check the connectors carefully. Fab Corp has real good photos of the different connectors so you can sort them all out.

Many vendors sell "pig tails" I get mine from www.fab-corp.com.

Be careful with feed lines. A 10 foot feedline could kill all your signal, unless it is super good cable. I try to use good Times Microsystems cable and keep the run from the router to the antenna under 5 feet total.

-Glenn

--- On Mon, 1/18/10, Mr Doug - <dsc3507@...> wrote:

From: Mr Doug - <dsc3507@...>
Subject: [ntms-hsmm] Antenna connection
To: ntms-hsmm@yahoogroups.com
Date: Monday, January 18, 2010, 1:22 AM

Assuming a WRT54 in waterproof box with 11dbi omni. What is the best connection method? Do you put a bulkhead on box or just bring coax out the bottom and seal? What type of coax? Do you use an N to tnc? or whatever is on the router, adapter?

Doug

[Non-text portions of this message have been removed]

1761. RE: [ntms-hsmm] Free book on Mesh Networking - must read

Yahoo group: DAWG-HSMM
Date: 2010-01-18 03:34:54 UTC
From: Glenn Currie
Topic: 1712 Message: 1761

Dave,

Great! It has a lot of good info. There are quite a few topics you need to know about to get on the air with HSMM. It does a good job of telling you enough about each of them to get you going. You can always dig into the references if you like, but it is a good read an they keep things rolling to show you the short path to get on the air.

When you have time to check it out, drop me a message with what you think they left our or what ham specific info hams need that was not covered.

I will attempt to fill in the gaps. Who knows, with enough gaps filled in, I may be able to stitch together a ham specific wireless networking book.

For now, happy reading and happy meshing.

-Glenn

--- On Sun, 1/17/10, Dave <dave@...> wrote:

From: Dave <dave@...>
Subject: RE: [ntms-hsmm] Free book on Mesh Networking - must read
To: ntms-hsmm@yahoogroups.com
Date: Sunday, January 17, 2010, 8:34 PM

Thank you for the reference book. I now have it too. :-)

Dave

DM78qg // KA0SWT

/++++++++++ +++++++++ +++++++++ +++/

-----Original Message-----

From: ntms-hsmm@yahoogrou ps.com [mailto:ntms-hsmm@yahoogrou ps.com] On Behalf

Of Bob Scanferla

Sent: Sunday, January 17, 2010 18:16

To: ntms-hsmm@yahoogrou ps.com

Subject: Re: [ntms-hsmm] Free book on Mesh Networking - must read

Glenn

Thanks for the link.

I had a quick look through the TOC and the book and it looks

excellent... ..it is especially nice to see the DIY projects!

I know in my part of the world where the Internet is practically in every home, it is difficult to motivate HAMS to use Packet because of the speed challenge... ....the only time the low speed RF networks are used is during emergencies and then the very low bandwidth and congestion is an issue.

This may be a good solution for both backbone and LAN.....I look forward to reading the book.

Regards

Bob

VA3RJS

---------- --------- --------- --

From: Glenn Currie <kd5mfw_7@yahoo. com>

To: ntms-hsmm@yahoogrou ps.com

Sent: Sun, January 17, 2010 6:11:48 PM

Subject: Re: [ntms-hsmm] Free book on Mesh Networking - must read

If you have any interest at all in HSMM, you need to down load this free book.

<http://wndw. net/download. html>

This book tells how to set up a mesh network in a developing country, which is about 99% the same job as setting up a HSMM network in that you have to supply all the infrastructure.

This book tells you how to set up a nice mesh network.

They cover all the key things you need to know. They discuss using the WRT54G. Just use HSMM-MESH firmware instead of the similar firmware they mention and you have a 425 page book that tell you what to do to set up a mesh network.

Again, if you have ANY intrest in HSMM, you need to take a look at this free book. It pretty much explains what we have independently developed in the Austin HSMM SIG, except we have developed a our own custom firmware and done

crystal mods.

-Glenn

kd5mfw@arrl. net

[Non-text portions of this message have been removed]

_____ _____ _____ _____ _____ _____ _

Yahoo! Canada Toolbar: Search from anywhere on the web, and bookmark your

favourite sites. Download it now http://ca.toolbar. yahoo.com.

[Non-text portions of this message have been removed]

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Yahoo! Groups Links

No virus found in this outgoing message.

Checked by AVG - www.avg.com

Version: 8.5.432 / Virus Database: 270.14.148/2629 - Release Date: 01/17/10 19:35:00

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1762. Re: [ntms-hsmm] New togroup, need info

Yahoo group: DAWG-HSMM
Date: 2010-01-18 06:22:51 UTC
From: Kipton Moravec
Topic: 1712 Message: 1762

On Sun, 2010-01-17 at 20:30 -0800, Mr Doug - wrote:
> Glenn,
>
> I was really sorry to hear about your health issues. Lets hope the doctors are wrong.
>
> You mentioned a high gain omni antenna. Do you have suggestions for specific antennas?
>
> 73 Doug
>
>

http://www.titanwirelessonline.com/ProductDetails.asp?ProductCode=AT-15OM-24

Is 15 db gain omni for $60 NEW!

Kip
--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1763. Re: [ntms-hsmm] FS: Omni Directional Outdoor 2.4 Ghz

Yahoo group: DAWG-HSMM
Date: 2010-01-18 03:56:20 UTC
From: Jordan Cronin
Topic: 1710 Message: 1763

Kip,

How will you connect it to the WRT54G (via an adapter)? Where can you get the adapter? I would buy that antenna right now if I knew I could cheaply attach it to my router.

-Jordan

On Thu, Jan 7, 2010 at 17:48, Kipton Moravec <kip@...> wrote:

>
>
> Seems like it is on the pricey side.
>
>
> http://www.titanwirelessonline.com/ProductDetails.asp?ProductCode=AT-15OM-24
>
> Is 15 db gain omni for $60 NEW!
>
> I just ordered one today.
>
> Kip
>
>
>
> On Thu, 2010-01-07 at 18:11 -0500, James C. Duram wrote:
> > Came across this from another list:
> >
> > Jim, K8COP
> >
> >
> >
> >
> > Applications: 802.11g, 802.11n, Wireless LAN, Bluetooth, Public Wireless
> HOTSPOT, WiFi.
> >
> > Frequency: 2400-2500 Mhz
> > Gain: from 8 to 12 dBi
> > Polarization: Vertical
> > Vertical Beam Width: 8 degrees
> > Horizontal Beam Width 360 degrees
> > Weight 3.3 lbs.
> > Length: 40.5 inches
> > comes w/ integrated N-Female Connector.
> >
> > 14 each unattached

> > 22 each attached to poles (I will have removed)
> > 36 total
> >
> > PRICE: $60 each or whole lot for $2100. All poles are USED.
> >
> > Meg Schell
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> > mschell12@... <mschell12%40yahoo.com>
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> > [Non-text portions of this message have been removed]
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> Kipton Moravec AE5IB .- . ... -...
>
> "Always do right; this will gratify some people and astonish the rest."
> --Mark Twain
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[Non-text portions of this message have been removed]

1764. Re: [ntms-hsmm] Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 14:35:38 UTC
From: jbeadles@pobox.com
Topic: 1747 Message: 1764

You have a computer and a powerpoint? That's all the equipment you need.

On 18 Jan 2010 at 0:58, Kipton Moravec wrote:

> I have been approached by HAMCOM Presentation Person, John Beadles to
> make it a Webinar. I do not have the equipment to do it. However I
> could Videotape it.
>
> Kip
>
> On Sun, 2010-01-17 at 22:50 -0800, Glenn Currie wrote:
> > Kip,
> >
> > It is tremendously helpful to have you do these HSMM seminars.
> >
> > We hope to have our web page on line soon. At that time I will
> > consider new ways to promote HSMM. Part of the answer is to
> > establish an "expert" in each geographic area. Travel beyond some
> > distance is just too much to overcome.
> >
> > Your training materials could be part of a package to supply
> > area "experts". Give it some consideration. I want to find a way
> > to support HSMM hams in other states and I do not have all the
> > answers yet but documentation will be needed.
> >
> > Would it be possible to video tape your presentation?
> > Perhaps we could create a DVD starter kit.
> >
> > Give it some consideration and let me know if you
> > have any ideas.
> >
> > Thanks,
> >
> > -Glenn
> >
> > --- On Mon, 1/18/10, Kipton Moravec <kip@...> wrote:
> >
> > From: Kipton Moravec <kip@...>
> > Subject: [ntms-hsmm] Links to last years Seminar Slides
> > To: ntms-hsmm@yahoogroups.com
> > Date: Monday, January 18, 2010, 12:36 AM
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> > Some of the people from out of town have asked for the
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> > materials. The presentation for this next seminar are not finished.
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> > But from last year they are Located:
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> > http://www.kdream. com/hsmm/ HSMM_Seminar_ August22. pdf
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> Kipton Moravec AE5IB .- . ... -...
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> "Always do right; this will gratify some people and astonish the
> rest." --Mark Twain
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> Yahoo! Groups Links
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John Beadles
jbeadles@...
972-898-0843 (US Cell Phone)
416-625-5247 (Canada Cell Phone)

1765. Re: [ntms-hsmm] Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 14:48:02 UTC
From: Kipton Moravec
Topic: 1747 Message: 1765

On Mon, 2010-01-18 at 09:35 -0500, jbeadles@... wrote:
> You have a computer and a powerpoint? That's all the equipment you need.
>

Do I need microphones?

Kip

> On 18 Jan 2010 at 0:58, Kipton Moravec wrote:
>
> > I have been approached by HAMCOM Presentation Person, John Beadles to
> > make it a Webinar. I do not have the equipment to do it. However I
> > could Videotape it.
> >
> > Kip
> >
> > On Sun, 2010-01-17 at 22:50 -0800, Glenn Currie wrote:
> > > Kip,
> > >
> > > It is tremendously helpful to have you do these HSMM seminars.
> > >
> > > We hope to have our web page on line soon. At that time I will
> > > consider new ways to promote HSMM. Part of the answer is to
> > > establish an "expert" in each geographic area. Travel beyond some
> > > distance is just too much to overcome.
> > >
> > > Your training materials could be part of a package to supply
> > > area "experts". Give it some consideration. I want to find a way
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> > > answers yet but documentation will be needed.
> > >
> > > Would it be possible to video tape your presentation?
> > > Perhaps we could create a DVD starter kit.
> > >
> > > Give it some consideration and let me know if you
> > > have any ideas.
> > >
> > > Thanks,
> > >
> > > -Glenn
> > >
> > > --- On Mon, 1/18/10, Kipton Moravec <kip@...> wrote:
> > >
> > > From: Kipton Moravec <kip@...>
> > > Subject: [ntms-hsmm] Links to last years Seminar Slides
> > > To: ntms-hsmm@yahoogroups.com

> > > Date: Monday, January 18, 2010, 12:36 AM
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> > > Some of the people from out of town have asked for the
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> > > materials. The presentation for this next seminar are not finished.
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> > > http://www.kdream. com/hsmm/ HSMM_Seminar_ August22. pdf
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> > Kipton Moravec AE5IB .- . ... -...
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> > "Always do right; this will gratify some people and astonish the
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> > Yahoo! Groups Links
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> John Beadles
> jbeadles@...
> 972-898-0843 (US Cell Phone)
> 416-625-5247 (Canada Cell Phone)
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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1766. Re: [ntms-hsmm] Antenna connection

Yahoo group: DAWG-HSMM
Date: 2010-01-18 14:58:41 UTC
From: Mr Doug -
Topic: 1759 Message: 1766

Thanks Glenn,

What is your experience with the omni antenna and mounting? Specifically side mounted on an outrig on a tower. I am sure this distorts the pattern and probably shadows it on the opposite side. Maybe two antennas on opposite sides?

Doug

From: Glenn Currie <kd5mfw_7@...>
To: ntms-hsmm@yahoogroups.com
Sent: Mon, January 18, 2010 2:36:59 AM
Subject: Re: [ntms-hsmm] Antenna connection

Doug,

At www.fab-corp. com, look at the cable section for "pig tails" . These are short cables used to go from the router and bulkhead mount to the bottom of the box.

The WRT54GL has Reverse TNC male connectors. Get Reverse TNC male to N female bulkhead "pig tails". Mount the N female through a hole in the bottom of the water proof box.

Run a N male / N male feet line to the external antenna.

All the good sturdy outdoor antennas have an N female connector.

Wrap all connectors in sealing tape.

The other popular connector on the back of wireless routers is the Reverse Polarity SMA connector.

The Reverse TNC and Reverse SMA connectors are similar to standard TNC and SMA connectors, but the pins are reversed in the connectors.

Initially the FCC told the Part -15 makers to put non standard connectors on the devices so it would not be straightforward for non licensed users to add external antennas.

Ironically now, there are probably orders of magnitude more of the "non standard" Reverse TNC and SMA conectors than the original standard connectors.

Check the connectors carefully. Fab Corp has real good photos of the different connectors so you can sort them all out.

Many vendors sell "pig tails" I get mine from www.fab-corp. com.

Be careful with feed lines. A 10 foot feedline could kill all your signal, unless it is super good cable. I try to use good Times Microsystems cable and keep the run from the router to the antenna under 5 feet total.

-Glenn

--- On Mon, 1/18/10, Mr Doug - <dsc3507@yahoo. com> wrote:

From: Mr Doug - <dsc3507@yahoo. com>
Subject: [ntms-hsmm] Antenna connection
To: ntms-hsmm@yahoogrou ps.com
Date: Monday, January 18, 2010, 1:22 AM

Assuming a WRT54 in waterproof box with 11dbi omni. What is the best connection method? Do you put a bulkhead on box or just bring coax out the bottom and seal? What type of coax? Do you use an N to tnc? or whatever is on the router, adapter?

Doug

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1767. Re: [ntms-hsmm] Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 15:05:06 UTC
From: Kilgore
Topic: 1747 Message: 1767

I have 2 wireless microphones which will let you move around.

Doug Kilgore KD5OUG
Richardson

On 1/18/2010 8:48 AM, Kipton Moravec wrote:
> On Mon, 2010-01-18 at 09:35 -0500, jbeadles@... wrote:
>
>> You have a computer and a powerpoint? That's all the equipment you need.
>>
>>
> Do I need microphones?
>
> Kip
>
>
>> On 18 Jan 2010 at 0:58, Kipton Moravec wrote:
>>
>>
>>> I have been approached by HAMCOM Presentation Person, John Beadles to
>>> make it a Webinar. I do not have the equipment to do it. However I
>>> could Videotape it.
>>>
>>> Kip
>>>
>>> On Sun, 2010-01-17 at 22:50 -0800, Glenn Currie wrote:
>>>
>>>> Kip,
>>>>
>>>> It is tremendously helpful to have you do these HSMM seminars.
>>>>
>>>> We hope to have our web page on line soon. At that time I will
>>>> consider new ways to promote HSMM. Part of the answer is to
>>>> establish an "expert" in each geographic area. Travel beyond some
>>>> distance is just too much to overcome.
>>>>
>>>> Your training materials could be part of a package to supply
>>>> area "experts". Give it some consideration. I want to find a way
>>>> to support HSMM hams in other states and I do not have all the
>>>> answers yet but documentation will be needed.
>>>>
>>>> Would it be possible to video tape your presentation?
>>>> Perhaps we could create a DVD starter kit.
>>>>
>>>> Give it some consideration and let me know if you

>>>> have any ideas.
>>>>
>>>> Thanks,
>>>>
>>>> -Glenn
>>>>
>>>> --- On Mon, 1/18/10, Kipton Moravec<kip@...> wrote:
>>>>
>>>> From: Kipton Moravec<kip@...>
>>>> Subject: [ntms-hsmm] Links to last years Seminar Slides
>>>> To: ntms-hsmm@yahoogroups.com
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>>>> Some of the people from out of town have asked for the
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>>> Kipton Moravec AE5IB .- . ..... .. -...
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>>> "Always do right; this will gratify some people and astonish the
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1768. Re: [ntms-hsmm] Antenna connection

Yahoo group: DAWG-HSMM
Date: 2010-01-18 15:26:35 UTC
From: Mr Doug -
Topic: 1759 Message: 1768

Glenn,

I think these two items would work. I was looking for a little shorter. Total length is about 5.5 feet, 19" for inside and 48" outside. I did not see anything suitable that was shorter. Do you think this would be too much loss?

Doug

http://www.fab-corp.com/product.php?productid=16160&cat=286&page=1

http://www.fab-corp.com/product.php?productid=16173&cat=283&page=1

From: Mr Doug - <dsc3507@...>
To: ntms-hsmm@yahoogroups.com
Sent: Mon, January 18, 2010 2:22:08 AM
Subject: [ntms-hsmm] Antenna connection

Assuming a WRT54 in waterproof box with 11dbi omni. What is the best connection method? Do you put a bulkhead on box or just bring coax out the bottom and seal? What type of coax? Do you use an N to tnc? or whatever is on the router, adapter?

Doug

[Non-text portions of this message have been removed]

1769. Re: [ntms-hsmm] Antenna connection

Yahoo group: DAWG-HSMM
Date: 2010-01-18 15:40:14 UTC
From: Kipton Moravec
Topic: 1759 Message: 1769

On Mon, 2010-01-18 at 07:26 -0800, Mr Doug - wrote:
> Glenn,
>
> I think these two items would work. I was looking for a little shorter. Total length is about 5.5 feet, 19" for inside and 48" outside. I did not see anything suitable that was shorter. Do you think this would be too much loss?
>
> Doug
>
> http://www.fab-corp.com/product.php?productid=16160&cat=286&page=1
>
> http://www.fab-corp.com/product.php?productid=16173&cat=283&page=1
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>

It will probably work fine. You have to have the 100 for inside the box
because it is flexible. Then the heavy 400 for outside to the antenna.

Let us know how it works.

>
>
> _____
> From: Mr Doug - <dsc3507@...>
> To: ntms-hsmm@yahoogroups.com
> Sent: Mon, January 18, 2010 2:22:08 AM
> Subject: [ntms-hsmm] Antenna connection
>
>
> Assuming a WRT54 in waterproof box with 11dbi omni. What is the best connection method? Do you put a bulkhead on box or just bring coax out the bottom and seal? What type of coax? Do you use an N to tnc? or whatever is on the router, adapter?
>
> Doug
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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1770. Re: [ntms-hsmm] Links to last years Seminar Slides

Yahoo group: DAWG-HSMM
Date: 2010-01-18 16:44:49 UTC
From: John Champa
Topic: 1747 Message: 1770

Kip, Very nice, but that URL was a dead end from here.
Could you kindly just send me your beautiful ALT FREQUENCY spread sheet.

TNX.

On Mon, Jan 18, 2010 at 12:36 AM, Kipton Moravec <kip@...> wrote:

>
>
> Some of the people from out of town have asked for the presentation
> materials. The presentation for this next seminar are not finished.
>
> But from last year they are Located:
> http://www.kdream.com/hsmm/HSMM_Seminar_August22.pdf
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> Kipton Moravec AE5IB .- . ... -...
>
> "Always do right; this will gratify some people and astonish the rest."
> --Mark Twain
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"When you can measure what you are speaking about, and express it in
numbers, you know something about it." [Lord Kelvin 1824-1907]

[Non-text portions of this message have been removed]

1771. Typical ethernet connection

Yahoo group: DAWG-HSMM
Date: 2010-01-18 17:20:36 UTC
From: Mr Doug -
Topic: 1771 Message: 1771

OK next question. How is the power/ethernet connected in a mast mounted waterproof box? Does the WRT54 support POE? If not do you externally use an unused pair in downlead?

As a for instance if one were to mount this at a home QTH what would you bring down from the box? Would the connection be to LAN? I suspect this would be the important one as it would give web access. What if you want to have it as in Internet point of access?

Doug

1772. Re: [ntms-hsmm] Antenna connection

Yahoo group: DAWG-HSMM
Date: 2010-01-18 17:47:54 UTC
From: Glenn Currie
Topic: 1759 Message: 1772

Doug,

That looks like a workable set of cables. Fabcorp tests all their cables which is a big help. I do not mess with trying to make the pig tails as the tiny connectors are too easy to mess up. For the LMR-400, I usually make my own custom cables.

As for the side arm mounting, you can go with two antennas and make use of the diversity antenna switching the router does. The tower will create a noticeable shadow but the two antennas will get around that.

We have found that getting good Line of Sight is often more important than keeping the feed line short, when you are are talking about a few feet. The better placement may swamp the loss in the extra cable, if you can get your antenna in a sweet spot.

Many of the consumer routers have two antennas. These things are super cost reduced. They can afford to make design changes when they make runs of hundreds of thousands. They would leave off the antennas if they felt they could get away with it. Consumers often no not pay attention to good antenna placement, and they depend on the diversity antenna system to keep things working as people walk a round a room, metal file cabinets are in a path etc. It really helps and keeps most folks from taking the wireless routers back to the store saying they do not work. I have seen wireless routers in a computer room, antennas folded flat and buried in a pile of CAT-5 cable. It did not occur to them to put he device up on a high spot on one of the racks and stick the antennas up. They did not have optimum wireless coverage, but it was working.

Having the second antenna helps enough, often enough to spend the money even on super cost reduced design.

Many of the new wireless routers are running more power and more antennas Multiple In Multiple Out (MIMO) They do a lot of switching of the antennas. Also most now seem to have more antennas inside the case. Some of the newer wireless N routers I have taken apart have as many as 5 antennas. Some are small bits of metal and easy to spot, and others are made of circuit board traces on the main circuit board of the router.

I only have simple tools, no fancy spectrum analyzers so I have no easy way to measure what is coming out of what antenna in what mode. And of course, the maker is not interested in telling me about their design, although you can sometimes get some info by looking at the FCC type acceptance data they had to file.

The built in antennas in laptops are usually poor performers. I wish they would provide a easy to get to jack tor an external antenna. For some work, I use PCMCIA

or Cardbus Wi-Fi cards with external antenna jacks. The circuit board antennas of the PCMCIA are some of the worst compromised antennas around. I have made may 10 mile links using a PCMCIA Wi-Fi card with a 24dB BBQ grill dish attached, but I can see why the laptop maker does not sell such an antenna arrangement as a standard product ;-)

I also have had excellent results with USB Wi-Fi adapters because they USB cable lets you mover the radio / antenna around. The microwave signals tend to bounce around in some buildings, like a LASER pen in a house of mirrors. It goes all over the place, but sometimes moving an antenna a few inches hits either a sweet spot or dead spot.

Getting way off here but Velcro a USB Wi-Fi adapter in the focal point of a dish and that works well also. I use a PVC pipe to hold the USB device at the focal point and took apart the USB radio so I could figure out where the circuit board antenna was located so I could aim it at the dish when I had it Velcroed in place.

I am wandering here a bit, but if you have any way to monitor the signal strength, you can often see a much better signal by moving an antenna a few inches and the extra cable to let you move those few inches to a sweet spot are well spent. There is some loss with a bit longer cable, but the better location of the antenna more than makes up for the loss.

If you have the money, good hard line works great. I found a run of small diameter Andrews hard line at a swap fest. A 50' run of even this small diameter hard line had less loss than a 3' run of cheap extent ion cable I bought at Fry's electronics.

Andrews and others make good hard line. It is expensive, but there is a reason they have customers for the stuff. There are some cable loss comparisons on the wiki page I gave you. We will have the info on the web site as soon as it goes live.

The only real good use for an amp we have found is if you must mount the radio down on the ground and run a long feed line to the antenna. We had a repeater site that had 300' of hard line to the top of a tower and the amp helped overcome the signal loss in the feed line. The reason this works well is the amp provides gain to noise as well as signal, but it is real quiet inside good feed line so there is not much noise to amplify. Running a 1/2 watt amp gave us coverage from the tower out 7 miles in most directions. The rest of the story is it was a 900MHz vertical omni antenna and we were squirting 2.4 GHz through it.
Less than optimum but the antenna was in place and an inviting N
connector terminated feed line just hanging
down in the radio shack with nothing attached to it.

So that story is good field experience. One would always like to use just he right gear, but with a 1/2 watt bidirectional amp, we were able to make good use of a spare antenna up on a 300 foot tower. At 1/2 watt, were were not worried about melting anything, even with bad mismatches. From such a high location we really did not need much power to make a link.

I have a 10dB patch antenna on top of my car and could link from 7 miles away, by carefully driving around the local Fry's Electronics store parking lot. I would get

to where I could see the tower, then slowly drive a slightly weaving pattern (carefully) through the parking lot until I found a sweet spot. It is a bit like drunk driving but is more properly called geek driving I think. I was in a parking lot and not on a road so there was no safety problem, I was barely moving and when I hit a sweet spot, I had to back up about 3 feet at times to make sure I hit it just right.

I was able to use the same driving technique to link with the 300 foot tower, from several parking garages in the area. Be safe when doing such testing, but it is fun and if I ever have to put up portable links around town, the experience will come in handy. Once a sweet spot is found, you can put a tripod mounted mesh node in the spot and have it work.

Near the tower the signal was easy to find and did not take any odd driving around. The technique described above is helpful when you are on the ragged edge of not being able to link.

-Glenn

--- On Mon, 1/18/10, Mr Doug - <dsc3507@yahoo.com> wrote:

From: Mr Doug - <dsc3507@...>
Subject: Re: [ntms-hsmm] Antenna connection
To: ntms-hsmm@yahoogroups.com
Date: Monday, January 18, 2010, 9:26 AM

Glenn,

I think these two items would work. I was looking for a little shorter. Total length is about 5.5 feet, 19" for inside and 48" outside. I did not see anything suitable that was shorter. Do you think this would be too much loss?

Doug

http://www.fab- corp.com/ product.php? productid= 16160&cat= 286&page= 1

http://www.fab- corp.com/ product.php? productid= 16173&cat= 283&page= 1

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From: Mr Doug - <dsc3507@yahoo. com>

To: ntms-hsmm@yahoogrou ps.com

Sent: Mon, January 18, 2010 2:22:08 AM

Subject: [ntms-hsmm] Antenna connection

Assuming a WRT54 in waterproof box with 11dbi omni. What is the best connection method? Do you put a bulkhead on box or just bring coax out the bottom and seal? What type of coax? Do you use an N to tnc? or whatever is on the router, adapter?

Doug

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1773. Re: [ntms-hsmm] Typical ethernet connection

Yahoo group: DAWG-HSMM
Date: 2010-01-18 17:58:23 UTC
From: Glenn Currie
Topic: 1771 Message: 1773

Good questions.

The WRT54G does not come from the factory set up for POE but it is easy to solder jumpers on the WRT54G to do a form of "passive POE" the yahoo site you just joined has photos of how to do this. This too will will go on the website soon.

But if you do a Google for POE you will find many hits and photos on adapting a WRT54G for POE.

Formal POE is IEEE 802.11af and you can buy a kit with a little box for each end of a CAT-5 that puts power on unused pairs of wires in a CAT-5 cable. A kit costs about $50.00 I have used them and they work fine. But the formal 802.11af uses 48 VDC to make sure they have enough power on a 100 meter run. Also 802.11af is formal POE and it requires smart circuits. The POE injector must detect a POE device before suppling power.

We are just careful and split out unused pairs and run 12VDC up the cable.

If you want to be able to have access to both WAN and LAN ports, you probably need to run two CAT-5 cables. That is what I did at the City EOC so down in the shack, I can run off the LAN side of the mesh node most of the time, but have the option of being the one to inject Internet into the mesh by putting an Internet link in on the WAN side.

Google the Wikipedia POE for good info.

-Glenn

--- On Mon, 1/18/10, Mr Doug - <dsc3507@...> wrote:

From: Mr Doug - <dsc3507@...>
Subject: [ntms-hsmm] Typical ethernet connection
To: ntms-hsmm@yahoogroups.com
Date: Monday, January 18, 2010, 11:20 AM

OK next question. How is the power/ethernet connected in a mast mounted waterproof box? Does the WRT54 support POE? If not do you externally use an unused pair in downlead?

As a for instance if one were to mount this at a home QTH what would you bring down from the box? Would the connection be to LAN? I suspect this would be the important one as it would give web access. What if you want to have it as in Internet point of access?

Doug

[Non-text portions of this message have been removed]

1774. Re: [ntms-hsmm] Antenna connection

Yahoo group: DAWG-HSMM
Date: 2010-01-18 20:01:22 UTC
From: kevin asato
Topic: 1759 Message: 1774

I wouldn't worry too much about loss on those jumpers. I use similar on point to point microwave equipment (2.4 - 11G) as a transition to waveguide. Whatever loss is compensated in your path loss calculations when sizing and mounting antennas. Assuming that your next point of connection is your antenna, it's nothing to write home about.

73,
kevin
kc6pob

--- On Mon, 1/18/10, Mr Doug - <dsc3507@...> wrote:

From: Mr Doug - <dsc3507@...m>
Subject: Re: [ntms-hsmm] Antenna connection
To: ntms-hsmm@...m
Date: Monday, January 18, 2010, 7:26 AM

Glenn,

I think these two items would work. I was looking for a little shorter. Total length is about 5.5 feet, 19" for inside and 48" outside. I did not see anything suitable that was shorter. Do you think this would be too much loss?

Doug

http://www.fab- corp.com/ product.php? productid= 16160&cat= 286&page= 1

http://www.fab- corp.com/ product.php? productid= 16173&cat= 283&page= 1

---------- --------- --------- --

From: Mr Doug - <dsc3507@yahoo. com>

To: ntms-hsmm@yahoogrou ps.com

Sent: Mon, January 18, 2010 2:22:08 AM

Subject: [ntms-hsmm] Antenna connection

Assuming a WRT54 in waterproof box with 11dbi omni. What is the best connection method? Do you put a bulkhead on box or just bring coax out the bottom and seal? What type of coax? Do you use an N to tnc? or whatever is on the router, adapter?

Doug

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1775. HSMM-MESH(tm) info and examples of use

Yahoo group: DAWG-HSMM
Date: 2010-01-25 05:02:06 UTC
From: Glenn Currie
Topic: 1775 Message: 1775

If you are interested in HSMM please check out the following
links to useful documentation:

<http://www.n5oom.org/hsmm/>

<http://wndw.net/pdf/wndw2-en/wndw2-ebook.pdf>

The Austin HSMM SIG developers are currently swamped answering
questions. We hope to have a web site up soon. Until then
we will answer questions and requests for documentation as best
we can in our spare time. Thanks for understanding.

--

To understand and use a HSMM system like HSMM-MESH(tm) it is
necessary to understand something about radios and something about
computer networks. The second URL above is a book that covers
enough to get help you get started.

Once you have a HSMM-MESH(tm) on the air, the vast majority of the
work is that of a computer system administrator. To most, the
whole HSMM-MESH(tm) network seems to just be a big network. The
fact that some links are ham radio links it almost entirely
transparent to the system administrator. So once you have
HSMM-MESH(tm) up and running most of your questions are standard
computer network questions. The more you understand about
computer networking, the easier running HSMM-MESH(tm) will be.

Please understand that if you have limited networking experience
such as setting up a web page, configuring an email server,
keeping remote file systems on line, setting up VoIP telephones,
etc. are all computer networking questions, not HSMM-MESH(tm)
questions for the most part.

It can take years to learn how to do the tasks listed above and
there is no easy way to gloss over he chasm. Somebody needs to
know this stuff to make your HSMM-MESH(tm) system work to its
fullest extent.

Just as most hams do not set up repeaters or a D-STAR system.
most users of a HSMM-MESH(tm) system will not need to know as
much as a system administrator. But you need at least one good
system administrator to make a HSMM-MESH(tm) system work.

Some key concepts of HSMM and a specific version of HSMM called
HSMM-MESH(tm):

Here is one popular question that is some what self contained:

1.How do I do the WRT54GL crystal mod?
That is showing up in the next issue of CQ-VHF magazine. We have put a lot of effort into getting that info out and K8OCL is helping by including the mod with photos in his CQ-VHF magazine column on HSMM.

General concepts of HSMM-MESH(tm)

HSMM-MESH(tm) is ham specific firmware written for the Linksys WRT54GL wireless router and similar hardware. You load a HSMM-MESH(tm) firmware file instead of an update from Linksys. Linksys provided the gateway in for loading updated firmware.

The standard Linksys WRT54G firmware does enough to fill a large book. There is such a book.
HSMM-MESH(tm) significantly changes the way the WRT54GL works when the firmware is loaded.

Key changes include automatic linking between nodes when they come within RF range. In about 5 seconds they link and are ready to pass data. No setting of IP addresses or any other configuration is needed. This is the RF network of the WRT54G hardware.

There are two other networks in the box. A 4 port LAN and a single WAN port. These are physically RJ-45 network cable jacks. The firmware in the WRT54GL is configurable, and defines the interaction between the two wired and one RF network.

Lets use an example of 4 mesh nodes. Turn them on and all the nodes will link automatically on the RF network. In this configuration you have 4 blue boxes linked and ready to send data but that is about
it.

This is about the same as taking 4 wired only, network hubs / switches and plugging CAT-5 network cables between them. An Ethernet hub / switch basically fans out a single RJ-45 jack to several, so
you can plug in more devices. With the hubs linked you have a live network but nobody to send any thing. All that is going on is a few service packets are getting passed around between the hubs to say they are connected, I am connected, I am connected, I am still connected...

So this is a complete working network but not of much interest to most people. Now what is going on to make a radio link look like a CAT-5 computer cable is actually profoundly complex. But in the end then RF link preforms exactly the same function as a simple cable.

The auto link feature on the RF network might be compared on the wired hub example as “wires that plug themselves in” and if they fall out, they “plug themselves in” again with no user intervention.

So a bare bones HSMM-MESH(tm) network is quite a piece of work, but no user data is flowing and most people would consider it “useless” to them. (EME, moon bounce contacts are quite a technical
feat but of no interest to most of mankind.)

Application programs for the network:

Well in both our simple wired and wireless network examples we have working networks but no user data is flowing unless we plug in some computers into the network. This may seem obvious, but it is
important to note that HSMM-MESH(tm) is just the network and it runs using ham radios as links, but it is just the network. You must hook up computers and application software to do any thing of interest to most people.

Anybody heard of the popular Apple iPhone? Want to do anything? There is an app for that. Well on a wired or wireless network, if you want to do anything useful, you need an app for that. Want to send email, you need an app for that. Want to transfer files, there is an app for that. Want to look at web pages? There is an app for that. You get the picture. Once you have the basic hardware in place and have a network link, you need application software to do anything that most people would consider useful.

HSMM-MESH(tm) can run completely stand alone. But if you want to send email, talk using VoIP phones, send pictures, view web pages, read email, someone will need to supply the application software and the computer it runs on, and will need to attach that to a LAN port on one of the mesh nodes. We are in the process of setting this up in Austin.

HSMM-MEAH(tm) has been carefully crafted to that it can easily attach to the Internet, but it is VERY important to understand that it does not need to attach to the network to be useful. We are linking hospitals in Austin. If other communications (phones and the Internet) were down we could still use HSMM-MESH(tm) but we would need to supply the mesh nodes and any computers needed to do something of use on the network.

We already have ARCHES voice and packet stations in about 40 hospitals and clinics. The stations have two dual band radios, 2m / 70cm. One is generally used for voice, and the other is used for packet radio using a TNC. The packet radios can link and send out messages via Winlink and Airmail. To support the TNC, and the Winlink software there is a computer in addition to the two radios and TNC.

With the HSMM-MESH(tm) addition, we can plug a wire form the Ethernet jack on the PC at each station and link to the other hospitals the Red Cross and the local EOC (all in progress of being installed). We have our own servers at the EOC with back up power and it can and will host our application software so we can run without the Internet so we can send email, talk on VoIP telephones and trade files at high speed.

How do you update the software on 40 computers with 5 or 6 hams doing all the work. Well the rest of the world regularly downloads updates over the Internet. We plan to do updates over HSMM-MESH(tm) once it is fully installed. We will be able to pull up in the parking lot of a hospital and tie into HSMM-MESH(tm) and access all the computers on the network, and down load software or do other administrative tasks, without having to show anyone our (stinking badges) . We do not need
to access the buildings for may maintenance tasks.

Providing a temporary Internet link to a hospital example:

We have a dedicated, static IP address for the ham shack in the City of Austin EOC ham shack. It is ours. Nobody else in the building in on this Internet link.

Now consider the situation where a back hoe digs up and breaks a big phone cable and a hospital looses their Internet connection.

It would be possible to plug our EOC Internet connection into a mesh node on the roof of the EOC and make the Internet available to all mesh nodes in RF range. Say the hospital that has just lost Internet connection has a solid HSMM-MESH(tm) link to the EOC. The ham at the hospital ARCHES station could contact the hospital system administrator and hold up a CAT-5 cable and say “I have a live Internet connection on this cable. Do you want to plug it into your network? Your choice.”

So HSMM-MESH could be used to bridge a broken Internet link if a hospital lost their link. This is classic ARES work – providing communications when other links are down. Traditionally this has meant phone lines. But ALL our served agencies use the Internet extensively. To them it is NORMAL communications.

There are countless other examples of how HSMM-MESH(tm) could be used. I hope these few examples have been of some help in understand what HSMM-MESH(tm), a very specific type of HSMM communications is “for”.

Glenn Currie
KD5MFW
kd5mfw@...

1776. HSMM-MESH(tm) web site is LIVE on the Internet - hsmm-mesh.org

Yahoo group: DAWG-HSMM
Date: 2010-01-27 00:50:08 UTC
From: Glenn Currie
Topic: 1776 Message: 1776

We now have a web site on line for the HSMM work going on
in Austin and Plano areas.

hsmm-mesh.org

We have massive archives in our unlisted yahoo group and on a
previous unpublished wiki web site.

We made a Herculean effort to get the technical side of getting a
page on the Internet and will fill the site with more content
ASAP.

For now, follow the "Key Concepts" link to the HSMM Wiki where
you can down load the HSMM-MESH(tm) firmware and read the
documentation on how to use it.

We will move most of our archives from our unpublished HSMM
development Yahoo site to the web page for general use and go
back to using the developer Yahoo site for those working on
the firmware and other key development efforts.

Check the web page regularly. Now that it is on line, we
will be adding content ASAP.

Thanks for the patience of many of you who have been waiting
for information.

Glenn R. Currie
kd5mfw@...

1777. Join us for HSMM-MESH Networking Webinar Saturday, Feb. 6, 2010

Yahoo group: DAWG-HSMM
Date: 2010-02-01 19:40:33 UTC
From: Kilgore
Topic: 1777 Message: 1777

Please disseminate to all ham club members.

HSMM-MESH(tm) Networking Seminar

The HSMM-MESH(tm) Networking Seminar will cover all aspects of the HSMM-MESH software developed in Austin, TX. The Webinar will begin with an explanation of High-Speed Multi-Media (HSMM) and the subset of this topic which uses modified Linksys WRT54GL 2.4 GHz Wireless Routers to form a mesh network, handy for high speed digital communications in the ham band - for emergencies, special events and field day.

The Webinar will cover applications, antennas, hardware, and the software. You will learn how to load the software and how to configure it.

In the second part there will be a lab where we will actually load the software into a router and configure the router. You will need a Linksys WRT54GL (any version) or a WRT54G (Version 1.1 through 4 - version 5 or higher
will NOT work.)

The Webinar will be online at 8:00am Central time to give you a chance to get logged in and test your setup before something starts happening. Training starts at 9:00am with 10 minute breaks about every hour. And we will finish in the afternoon after a lunch break.

You should Register before Saturday morning if possible. . If you have a microphone and headset you will be able to ask questions verbally over VOIP. Otherwise you can type in questions to be able to interact with the speaker.

The Webinar is provided through the courtesy of Ham-Com and is presented by members of the NTMS-HSMM and Austin-HSMM groups. (contactkip@...) hsmm-mesh.org

Join us for a Webinar on February 6

<https://www1.gotomeeting.com/register/959766065>

Space is limited.
Reserve your Webinar seat now at:
https://www1.gotomeeting.com/register/959766065

HSMM-MESH

Title: HSMM-MESH(tm) Networking Seminar

Date:
Saturday, February 6, 2010

Time:
9:00 AM - 3:00 PM CST

After registering you will receive a confirmation email containing
information about joining the Webinar.

System Requirements
PC-based attendees
Required: Windows® 2000, XP Home, XP Pro, 2003 Server, Vista

Macintosh®-based attendees
Required: Mac OS® X 10.4 (Tiger®) or newer

[Non-text portions of this message have been removed]

1778. Re: [ntms-hsmm] Join us for HSMM-MESH Networking Webinar Saturday, Feb. 6, 2010

Yahoo group: DAWG-HSMM
Date: 2010-02-02 00:28:20 UTC
From: Bill V WA7NWP
Topic: 1777 Message: 1778

Is there any chance that the webinar video archive will be available
later for download?

It sounds like you're making some great progress...

73
Bill - WA7NWP

1779. Re: [ntms-hsmm] Join us for HSMM-MESH Networking Webinar Saturday, Feb. 6, 2010

Yahoo group: DAWG-HSMM
Date: 2010-02-02 03:19:46 UTC
From: Kilgore
Topic: 1777 Message: 1779

We plan to record it using the Webinar software capablity. At this time
we have not worked out a system for later download of a very large file.

We'll work on it.

Doug Kilgore KD5OUG

On 2/1/2010 6:28 PM, Bill V WA7NWP wrote:
> Is there any chance that the webinar video archive will be available
> later for download?
>
> It sounds like you're making some great progress...
>
> 73
> Bill - WA7NWP
>
>

1780. Inflatible 2.4 Ghz antenna

Yahoo group: DAWG-HSMM
Date: 2010-02-03 13:19:07 UTC
From: Kilgore
Topic: 1780 Message: 1780

Inflatible 2.4 antenna
http://www.gatr.com/
http://www.gatr.com/index.php?option=com_content&task=view&id=59&Itemid=1

1781. Re: [ntms-hsmm] Inflatible 2.4 Ghz antenna

Yahoo group: DAWG-HSMM
Date: 2010-02-03 14:23:37 UTC
From: Kipton Moravec
Topic: 1780 Message: 1781

I had to look at this twice. The antenna is 2.4 meters big, and talks to satellites. It is not a 2.4 GHz antenna we can use for HSMM-MESH.

They do provide a high speed Internet link that could be used by the HSMM-MESH.

Kip

On Wed, 2010-02-03 at 07:19 -0600, Kilgore wrote:
>
> Inflatible 2.4 antenna
> http://www.gatr.com/
> http://www.gatr.com/index.php?option=com_content&task=view&id=59&Itemid=1
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1782. Re: APPROVE -- koupita wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2010-02-04 17:12:49 UTC
From: Kilgore
Topic: 1782 Message: 1782

On 2/4/2010 7:12 AM, Yahoo! Groups Notification wrote:
> Hello,
>
> The following person would like to join the ntms-hsmm group:
> Email address: koupita<bogus@...>
>
> Comment from user:
> I?m a hamradio in Spain (EA5HJX) and i?m interested in radio and
> network infraestructures. I have a similar project in Valencia (Spain).
> Best Regards
>
>

1783. Re: APPROVE -- n0lo.ralph wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2010-02-07 01:01:18 UTC
From: Kilgore
Topic: 1783 Message: 1783

On 2/6/2010 2:05 PM, Yahoo! Groups Notification wrote:
> Hello,
>
> The following person would like to join the ntms-hsmm group:
> Email address: n0lo.ralph<tullo@...>
>
> Comment from user:
> I am listening to the webiner and am interested
>
>

1784. Fwd: [Austin_HSMM_Development] Interesting use of 802.11 gear, some related to our project

Yahoo group: DAWG-HSMM
Date: 2010-02-08 05:48:52 UTC
From: Kilgore
Topic: 1784 Message: 1784

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-------- Original Message --------
Subject: [Austin_HSMM_Development] Interesting use of 802.11 gear, some
related to our project
Date: Sun, 7 Feb 2010 18:26:24 -0600
From: Glenn Currie <glenn.kd5mfw@...>
Reply-To: Austin_HSMM_Development@yahoogroups.com
To: Austin_HSMM_Development@yahoogroups.com

Here is a URL for an interesting web page with some good resources.

Using 802.11 wireless gear and GPS for fun stuff.

<http://uivast.com/ground-station-projects>

-Glenn

[Non-text portions of this message have been removed]
```

1785. joshsmith2023956 wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2010-02-08 22:56:34 UTC
From: Kilgore
Topic: 1785 Message: 1785

On 2/8/2010 3:50 PM, Yahoo! Groups Notification wrote:
> Hello,
>
> The following person would like to join the ntms-hsmm group:
> Email address: joshsmith2023956<juicewvu@...>
>
> Comment from user:
> Ham (KD8HRX) located in WV interested in hsmm. specifically the adoption
> of various 802.11 devices for use in the ham bands.
>
>

1786. FCC Webcast: Emergency Response Interoperability Center

Yahoo group: DAWG-HSMM
Date: 2010-02-09 18:45:46 UTC
From: kc5qhh
Topic: 1786 Message: 1786

Cross Post from HF Link Yahoo Group - Thanks to Bonnie Crystal - KQ6 XA

USA's FCC will webcast this meeting:

Public Forum to Create an Emergency Response Interoperability Center

February 10, 2010 2:00 PM ☐ 4:00 PM ET | Washington, DC

http://reboot.fcc.gov/live/

The Public Safety and Homeland Security Bureau (PSHSB) will hold a public forum to discuss the need for enhanced coordination and cooperation among public safety entities to achieve broadband interoperability and operability. The forum will also discuss the creation of an Emergency Response Interoperability Center (ERIC) to develop common standards and to provide interoperability and operating procedures for the public safety licensee authorized to construct, operate and use the nationwide wireless broadband network.

http://hraunfoss.fcc.gov/edocs_public/attachmatch/DOC-295971A1.pdf

http://www.fcc.gov/pshs/eric.html

===

73,

RD - KC5QHH

[Non-text portions of this message have been removed]

1787. Laptop runs on AA batteries

Yahoo group: DAWG-HSMM
Date: 2010-02-12 04:58:33 UTC
From: Kilgore
Topic: 1787 Message: 1787

Here's a link to a very low powered laptop:

http://www.norhtec.com/products/gecko/index.html

Doug KD5OUG

1788. Re: [ntms-hsmm] Laptop runs on AA batteries

Yahoo group: DAWG-HSMM
Date: 2010-02-12 07:04:41 UTC
From: kevin asato
Topic: 1787 Message: 1788

I've had my (4x) AA powered notebook computer for almost 20 years - a TRS-80 Model 102. It has a built in Text Editor, Spread Sheet (Multiplan), commications interface (300 baud modem port), mass storage port (cassette interface), 4-line LCD display, 32K of RAM, and external expansion bus. Unfortunately, time has left it by as it is not Y2K compliant but hey, the battery life is about 20 hours! It still works well as a packet terminal and for debugging microcontroller projects using it's built in communications program.

Sorry, couldn't help myself!

73,
kevin
kc6pob

--- On Thu, 2/11/10, Kilgore <kilgore1317@...> wrote:

From: Kilgore <kilgore1317@sbcglobal.net>
Subject: [ntms-hsmm] Laptop runs on AA batteries
To: "HSMM Group" <ntms-hsmm@yahoogroups.com>
Date: Thursday, February 11, 2010, 8:58 PM

Here's a link to a very low powered laptop:

http://www.norhtec. com/products/ gecko/index. html

Doug KD5OUG

[Non-text portions of this message have been removed]

1789. Re: Laptop runs on AA batteries

Yahoo group: DAWG-HSMM
Date: 2010-02-12 17:40:41 UTC
From: h0chus_p0ckus
Topic: 1787 Message: 1789

Given that Norhtec's latest product news is dated from 2007, and the latest copyright date on their pages is 2007, I'd say their project died in 2007 and the web site is just a ghost of Yet Another Vaporware Project.

Be nice if it happened, but I think it didn't and won't.

--Red

1790. Re: Laptop runs on AA batteries

Yahoo group: DAWG-HSMM
Date: 2010-02-12 19:05:01 UTC
From: Niall Parker
Topic: 1787 Message: 1790

They make reference to Ubuntu 9.04 so something has been happening since 2007 ... seems like a slightly beefier version of the OLPC XO (double speed, 2-4x RAM, 8x persistent storage).

I'd certainly be interested in hearing anyone with experience with it !

... Niall

1791. - tmatthewsx wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2010-02-14 01:43:48 UTC
From: Kilgore
Topic: 1791 Message: 1791

On 2/13/2010 4:06 PM, Yahoo! Groups Notification wrote:
> Hello,
>
> The following person would like to join the ntms-hsmm group:
> Email address: tmatthewsx<k5saf@...>
>
> Comment from user:
> I am involved with a group of hams in Houston experimenting with mesh
> and the South Texas BLT (balloon launch team)where we are considering
> flying a mesh node on the next launch. Tks - Tom
>
>

1792. RF Elements StationBox

Yahoo group: DAWG-HSMM
Date: 2010-02-16 02:18:47 UTC
From: Doug
Topic: 1792 Message: 1792

Has anyone tried the RF Elements StationBox 2.4 gHz antenna. It is designed for WISP routers. The enclosure with 14dbi antenna is selling for $25.00 at TitanWirelessOnline The price sure is right, I just wonder if the WRT54GL router board will fit in the enclosure.

Doug Garcia
AE5HE

1793. Re:RF Elements StationBox

Yahoo group: DAWG-HSMM
Date: 2010-02-16 15:33:02 UTC
From: rddunnin@rockwellcollins.com
Topic: 1792 Message: 1793

Though I haven't measured the box, I have done two types of weather resistant mounting for HSMM equipment. The first is to use "lawn irrigation control boxes" and mount the Linksys equipment (BEF11S4, WSB24, and WET11) in those boxes. The other thing I have done is to take the board out of a WRT54Gv2 and mount it on stand-offs in a NMEA 4 box.

Installation Photos:

WET 11 in Lowes Sprinkler Control Box:
http://www.n5oom.org/hsmm/photos/kc5qhh_bridge/DSC03446.JPG

BEF11S4 with WSB24 in Home Depot Sprinkler Control Box:
http://www.n5oom.org/hsmm/photos/kc5qhh_ap/DSC03461.JPG

WRT54Gv2 in NMEA 4 box :
http://www.n5oom.org/hsmm/photos/kc5qhh_mesh/DSC03453.JPG

Weatherproofing: http://www.n5oom.org/hsmm/photos/kc5qhh_mesh/DSC03454.JPG

(NMEA Enclosure available from Demarc Technologies Group - DTG:
http://www.demarctech.com/products/reliawave-ode/reliawave-rw-ode-8585.html)

RD - KC5QHH

[Non-text portions of this message have been removed]

1794. Re: FCC Webcast: Emergency Response Interoperability Center - Rescheduled

Yahoo group: DAWG-HSMM
Date: 2010-02-18 22:53:53 UTC
From: kc5qhh
Topic: 1786 Message: 1794

FOR IMMEDIATE RELEASE: NEWS MEDIA CONTACT

February 18, 2010 Robert Kenny: (202) 418-2668

Email: robert.kenny@...

FEDERAL COMMUNICATIONS COMMISSION ANNOUNCES NEW DATE

FOR EMERGENCY RESPONSE INTEROPERABILITY FORUM

Public forum on Creation of Interoperability Center Set for March 2

Washington, D.C. ☐ The Federal Communications Commission's (FCC's) Public Safety and Homeland Security Bureau (Bureau) has rescheduled its public forum to discuss the creation of an emergency response interoperability center for public safety broadband communications for Tuesday, March 2, 2010, from 2:00 p.m. - 4:00 p.m. The March 2nd meeting will be held in the Commission Meeting Room (TW-C305) located at 445 12th Street, SW, Washington, D.C. 20554. Please note that this forum had been originally scheduled for February 10, 2010, but was postponed due to severe winter weather.

Representatives from the U.S. Department of Homeland Security, the National Institute of Standards and Technology's Public Safety Communications Research Program, and the Bureau will make brief opening remarks. The floor will then be open to the audience for questions and comments. Attendees who would like to speak will be given no more than three minutes to ask questions and/or make comments. Those who are interested in speaking at the forum must notify Susan McLean, PSHSB Outreach Coordinator, at Susan.McLean@... no later than noon on Friday, February 26, 2010. Due to the limited meeting time, speakers will be given time to speak on a first come, first served basis. All information gathered in connection with this forum, whether submitted in person or over the Internet, will be made part of the record in the National Broadband Plan proceeding, GN Docket No. 09-51. Please Note: all who registered to attend the February 10th public forum and may have requested to provide public comment must re-register for the March 2nd event and again request to speak (please see details on pre-registration below).

The Bureau is holding this public forum in response to public comments the Commission received as part of the National Broadband Plan proceedings which identified the need for enhanced coordination and cooperation among public safety entities to achieve broadband interoperability and operability. The forum will examine ways in which

this goal could be achieved, including the creation of an emergency response interoperability center to develop common standards and to provide interoperability and operating procedures for the public safety licensee authorized to construct, operate and use the nationwide wireless broadband network.

The attached concept paper on the emergency response interoperability center's proposed primary mission, responsibilities and structure is for discussion at the forum. The forum will solicit ideas and comments from interested parties on these topics and the concept paper. Discussions will also focus on the center's role in accomplishing critical tasks such as establishing a public safety interoperability profile, interoperability standards, authentication, encryption, roaming, priority access, application uses and interconnectivity. The forum will also focus on the role an emergency response interoperability center would play in establishing a national framework for gateway functionality and interface capabilities, as well as a national framework for interconnectivity and compatibility of user networks.

The forum will also address how an interoperability center could help in resolving interoperability-related disputes between public safety entities, establishing standards for commercial providers to expand public safety's access to broadband services across the nation, and ensuring that grant funds are utilized efficiently.

The forum will be open to the public; admittance however will be limited to the seating available. Those individuals who are interested in attending the forum may pre-register on-line at http://www.fcc.gov/pshs/event-registration.html. Those who pre-register will be asked to provide their name, title, organization affiliation, and contact information. Individuals may also contact Deandrea Wilson at Deandrea.Wilson@fcc.gov or by phone at 202-418-0703 regarding pre-registration. The deadline for pre-registration is Friday, February 26, 2010.

Audio/Video coverage of the meeting will be broadcast live with open captioning over the Internet from the FCC's web page at www.fcc.gov/realaudio. The FCC's web cast is free to the public and does not require pre-registration.

Reasonable accommodations for persons with disabilities are available upon request. Please include a description of the accommodation you will need. Individuals making such requests must include their contact information should FCC staff need to contact them for more information. Requests should be made as early as possible. Please send an e-mail to fcc504@... or call the Consumer & Governmental Affairs Bureau: 202-418-0530 (voice), 202-418-0432 (TTY).

For additional information about the meeting, please contact Susan McLean by email: Susan.McLean@... or by phone: 202-418-7868.

- FCC -

Concept Paper: Emergency Response Interoperability Center

Proposed Primary Mission - To establish a technical and operational framework that will ensure nationwide operability and interoperability from the outset in deployment and operation of the 700 MHz public safety broadband wireless network.

Proposed Responsibilities

* Adopt technical and operational requirements and procedures for ensuring a nationwide level of interoperability, to be implemented and enforced through FCC rules, license and lease conditions, and grant conditions.
* Adopt and implement other enforceable technical and operational requirements and procedures to address, at a minimum, operability, roaming, priority access, gateway functions and interfaces, interconnectivity of public safety broadband wireless networks.
* Adopt authentication and encryption requirements for common public safety broadband applications and network usage.
* Coordinate the interoperability framework of regulations, license requirements, grant conditions, and technical standards with other entities (e.g., the Public Safety Broadband Licensee (Public Safety Spectrum Trust), the Department of Homeland Security (DHS), the National Telecommunications and Information Agency, and the National Institute of Standards and Technology (NIST)).

Proposed Structure

* Location. Housed at FCC in the Public Safety and Homeland Security Bureau.
* Public Safety Advisory Board. A board that is broadly representative of the public safety community will serve a central advisory role to ERIC. We anticipate that the board will primarily include representatives of all major national public safety organizations and regional, state, tribal, and local public safety entities. Participating Federal first responder agencies, vendors, and service providers may have secondary or ex officio status on the board.
* Participating Federal Agencies. We recommend that DHS and NIST contribute to ERIC's functions in their traditional areas of expertise via Memoranda of Agreement with PSHSB and potential staff detail assignments to ERIC:

* DHS would participate in the areas of grant administration, public safety outreach and technical assistance, and best practices development.
* NIST would participate in the areas of standards development, verification, testing, and validation.

Federal Partners Coordinating Committee. Federal agencies that regularly coordinate on state and local public safety communications matters (e.g., DHS, NTIA, DOJ) will have the opportunity to provide input into ERIC specific to 700 MHz broadband deployments.

[Non-text portions of this message have been removed]

1795. Re:RF Elements StationBox

Yahoo group: DAWG-HSMM
Date: 2010-02-20 13:46:02 UTC
From: jks19714
Topic: 1792 Message: 1795

I've been using the enclosures manufactured by Pacific Wireless. They have knockouts for the N connectors as well as weather-resistant Ethernet jacks.

73s,
john W3JKS/AAT3BF/AAM3EDE/AAA9SL

--- In ntms-hsmm@yahoogroups.com, rddunnin@... wrote:
>
> Though I haven't measured the box, I have done two types of weather
> resistant mounting for HSMM equipment. The first is to use "lawn
> irrigation control boxes" and mount the Linksys equipment (BEF11S4, WSB24,
> and WET11) in those boxes. The other thing I have done is to take the
> board out of a WRT54Gv2 and mount it on stand-offs in a NMEA 4 box.
>
> Installation Photos:
>
> WET 11 in Lowes Sprinkler Control Box:
> http://www.n5oom.org/hsmm/photos/kc5qhh_bridge/DSC03446.JPG
>
> BEF11S4 with WSB24 in Home Depot Sprinkler Control Box:
> http://www.n5oom.org/hsmm/photos/kc5qhh_ap/DSC03461.JPG
>
> WRT54Gv2 in NMEA 4 box :
> http://www.n5oom.org/hsmm/photos/kc5qhh_mesh/DSC03453.JPG
>
> Weatherproofing: http://www.n5oom.org/hsmm/photos/kc5qhh_mesh/DSC03454.JPG
>
> (NMEA Enclosure available from Demarc Technologies Group - DTG:
> http://www.demarctech.com/products/reliawave-ode/reliawave-rw-ode-8585.html)
>
> RD - KC5QHH
>
> [Non-text portions of this message have been removed]
>

1796. ARRL/TAPR 2009 Digital Conference DVDs Now Available

Yahoo group: DAWG-HSMM
Date: 2010-02-21 10:10:02 UTC
From: Mark Thompson
Topic: 1796 Message: 1796

ARRL/TAPR 2009 Digital Conference DVDs Now Available
Posted by: "Gary Pearce KN4AQ" kn4aq@... kn4aq
Date: Sat Feb 20, 2010 8:18 am ((PST))

ARVN has released a new 6-DVD set of videos from the ARRL and TAPR 2009 Digital Communications Conference, held last September near Chicago.

This year's conference didn't have as much D-STAR info as the 2008 DCC did. Tom Azlin N4ZPT has a presentation on using the DD mode and ID1's at the Marine Corps Marathon, and John Ronan EI7IG has been experimenting with what he calls "Delay and Disruption Tolerant Networking in AX.25 and DSTAR Networks."

Other topics presented include: equipment design and construction, Software Designed Radio, AMSAT/ARISSat, packet, advanced APRS, and Digital ATV. It's all interesting, but I found the Digital ATV presentations to be particularly new and intriguing.

The six DVDs are organized around common topics. Each DVD has several presentations, and most presentations run about 45 minutes (good for club meeting programs, if your club leans a bit technical).

You can buy individual DVDs covering the area you're interested in for $15 each (+ $3 shipping), or the whole set for $75 (but still just $3 shipping). The DVDs are produced in NTSC standard definition video.

And a reminder that DVDS of the D-STAR presentations at the 2008 and 2009 Dayton Hamventions are also available. If you find yourself hungry for more D-STAR information, these DVDs should help fill you up (or at least keep you busy for a day).

Free previews, details and ordering at: www.ARVideoNews.com.

73,
Gary KN4AQ

ARVN: Amateur Radio//Video News
Gary Pearce KN4AQ
508 Spencer Crest Ct.
Cary, NC 27513
<mailto:kn4aq@...>kn4aq@...
919-380-9944
www.ARVideoNews.com

[Non-text portions of this message have been removed]

1797. Re: [ntms-hsmm] Re:RF Elements StationBox

Yahoo group: DAWG-HSMM
Date: 2010-02-21 13:45:09 UTC
From: Kipton Moravec
Topic: 1792 Message: 1797

Which specific enclosure part numbers?

Kip

On Sat, 2010-02-20 at 13:46 +0000, jks19714 wrote:
>
>
> I've been using the enclosures manufactured by Pacific Wireless. They have knockouts for the N connectors as well as weather-resistant Ethernet jacks.
>
> 73s,
> john W3JKS/AAT3BF/AAM3EDE/AAA9SL
>
> --- In ntms-hsmm@yahoogroups.com, rddunnin@... wrote:
> >
> > Though I haven't measured the box, I have done two types of weather
> > resistant mounting for HSMM equipment. The first is to use "lawn
> > irrigation control boxes" and mount the Linksys equipment (BEF11S4, WSB24,
> > and WET11) in those boxes. The other thing I have done is to take the
> > board out of a WRT54Gv2 and mount it on stand-offs in a NMEA 4 box.
> >
> > Installation Photos:
> >
> > WET 11 in Lowes Sprinkler Control Box:
> > http://www.n5oom.org/hsmm/photos/kc5qhh_bridge/DSC03446.JPG
> >
> > BEF11S4 with WSB24 in Home Depot Sprinkler Control Box:
> > http://www.n5oom.org/hsmm/photos/kc5qhh_ap/DSC03461.JPG
> >
> > WRT54Gv2 in NMEA 4 box :
> > http://www.n5oom.org/hsmm/photos/kc5qhh_mesh/DSC03453.JPG
> >
> > Weatherproofing: http://www.n5oom.org/hsmm/photos/kc5qhh_mesh/DSC03454.JPG
> >
> > (NMEA Enclosure available from Demarc Technologies Group - DTG:
> > http://www.demarctech.com/products/reliawave-ode/reliawave-rw-ode-8585.html)
> >
> > RD - KC5QHH
> >
> > [Non-text portions of this message have been removed]
> >
>
>
>
>

> ----------
>
> Yahoo! Groups Links
>
>
>
>
--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1798. Basic Setup: Do I need to open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-25 02:06:31 UTC
From: kc5sii
Topic: 1798 Message: 1798

I have two WR54 routers set up they talk with each other. I can ping the distant router form one host and vise versa. But I can't ping a host on one router to another host on the other.

I think I still have some configuration to do with port forwarding. If I understand it correctly, by default, the router will not route any traffic to the LAN. I think I've figured out that I must first open ports to allow the router to pass the traffic. I'm not exactly sure how to do that. I think I might be able to muddle through setting up common ports like 80 or something. But what about regular traffic like file sharing between two XP machines and computer browsing. Is there a way just to open it up entirely for on net verses off net traffic?

Some screen shot examples would ge great. I think if I see what goes where, I'll have a better idea how to proceed.

Thanks in advance!

73,
Dave, KC5SII

1799. Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-25 04:55:15 UTC
From: Rusty Haddock
Topic: 1798 Message: 1799

kc5sii wrote:
>...

>I think I still have some configuration to do with port
>forwarding. If I understand it correctly, by default, the router will
>not route any traffic to the LAN. I think I've figured out that

Correct.

>I must first open ports to allow the router to pass the traffic.

Correct again.

>I'm not exactly sure how to do that. I think I might be able
>to muddle through setting up common ports like 80 or something.

From the status page, go to setup. After entering the password and
arriving at the setup page, click on "Port Forwarding and DHCP" at
the top.

Now, port 80 is already used by the node, on all interfaces (WAN, LAN,
and WLAN), for its webserver to configure the node. You might want to
pass another port, say 8080, but have the iptables software translate
that back to port 80 on its way onto to the LAN PC (172.27.0.xx).

>But what about regular traffic like file sharing between two XP
>machines and computer browsing. Is there a way just to open it up
>entirely for on net verses off net traffic?

You could always turn off the firewall/NAT but... if on XP machine is
on one node and the other XP machine is attached to a different node
they can't address each other. Both will probably have the IP address
of 172.27.0.10. You think, "Well, maybe I'll assign static addresses on
the LAN side." Nice try but node's router will keep those 172.27.0.xx
addresses on the LAN side. Poke holes in the firewall to go to a
particular PC on the LAN side of the node.

Port 445 is used by Micro$oft for its file sharing. See the knowledge
base on Micro$oft's website to find out what ports are used by their
software.

> Some screen shot examples would ge great. I think if I see what
>goes where, I'll have a better idea how to proceed.

I think it's fairly straight forward but holler if you have problems
or questions. OK?

```
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

1800. Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-25 05:55:56 UTC
From: Gerald Pelnar
Topic: 1798 Message: 1800

```
----- Original Message -----
From: "Rusty Haddock" <rusty@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Wednesday, February 24, 2010 10:55 PM
Subject: Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

>
> Now, port 80 is already used by the node, on all interfaces (WAN, LAN,
> and WLAN), for its webserver to configure the node. You might want to
> pass another port, say 8080, but have the iptables software translate
> that back to port 80 on its way onto to the LAN PC (172.27.0.xx).
>

Rusty,

Where were you 3 days ago when I learned about port 80 the hard way? I'm
just getting started, too.

73,
Gerald Pelnar WD0FYF
McPherson, Kansas
```

1801. Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-25 07:08:33 UTC
From: Rusty Haddock
Topic: 1798 Message: 1801

Gerald Pelnar wrote:
>----- Original Message -----
>Rusty,
>
>Where were you 3 days ago when I learned about port 80 the hard way? I'm
>just getting started, too.
>
>73,
>Gerald Pelnar WD0FYF
>McPherson, Kansas

Sorry Gerald, I've been right here -- just on the other side of Oklahoma
from you. :-)

I didn't see a message from you on the list so... did I miss something?
Sorry. :-(

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1802. Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-25 12:48:47 UTC
From: Patrick Soileau ND5C
Topic: 1798 Message: 1802

Although Rusty did rack up some miles on-the-road during the "Haddock Tour 2009" towards the end of last year, I believe he's still hanging out in Val Alystene most days. :)

73,

Pat ND5C

p.s. - sorry, Gerald. just couldn't resist the smart remark...
(but I'll try harder next time, Rusty :)

--- On Wed, 2/24/10, Gerald Pelnar <wd0fyf@...> wrote:

From: Gerald Pelnar <wd0fyf@...>
Subject: Re: [ntms-hsmm] Basic Setup: Do I need to open ports?
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, February 24, 2010, 11:55 PM

----- Original Message -----

From: "Rusty Haddock" <rusty@fe2o3. lonestar. org>

To: <ntms-hsmm@yahoogrou ps.com>

Sent: Wednesday, February 24, 2010 10:55 PM

Subject: Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

>

> Now, port 80 is already used by the node, on all interfaces (WAN, LAN,

> and WLAN), for its webserver to configure the node. You might want to

> pass another port, say 8080, but have the iptables software translate

> that back to port 80 on its way onto to the LAN PC (172.27.0.xx) .

>

Rusty,

Where were you 3 days ago when I learned about port 80 the hard way? I'm

just getting started, too.

73,

Gerald Pelnar WD0FYF

McPherson, Kansas

[Non-text portions of this message have been removed]

1803. Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-25 18:11:06 UTC
From: Gerald Pelnar
Topic: 1798 Message: 1803

> >Where were you 3 days ago when I learned about port 80 the hard way?
> I'm
> >just getting started, too.
> >
> Sorry Gerald, I've been right here -- just on the other side of Oklahoma
> from you. :-)
>
> I didn't see a message from you on the list so... did I miss something?
> Sorry. :-(

No, you didn't miss anything. Until now, I didn't know enough to even ask questions. I did manage to get 3 nodes working in the house with a computer on each one. I have openfire runing on one and spark on the other 2. When the wife asked what I was doing, I had to admit I was talking to my self on the computer. :)

Gerald WD0FYF

1804. Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-25 19:38:29 UTC
From: Rusty Haddock
Topic: 1798 Message: 1804

```
Gerald Pelnar wrote:
>
>> >Where were you 3 days ago when I learned about port 80 the hard way?
>> I'm
>> >just getting started, too.
>> >
>> Sorry Gerald, I've been right here -- just on the other side of Oklahoma
>> from you. :-)
>>
>> I didn't see a message from you on the list so... did I miss something?
>> Sorry. :-(
>
>No, you didn't miss anything. Until now, I didn't know enough to even ask
>questions. I did manage to get 3 nodes working in the house with a computer
>on each one. I have openfire runing on one and spark on the other 2. When
>the wife asked what I was doing, I had to admit I was talking to my self on
>the computer. :)

No biggie -- I do it all the time -- I'm the only one that listens to me. :-)

Did you compile OpenFire and Spark for the nodes themselves or the
machines attached to them?

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

1805. Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-26 01:17:34 UTC
From: Gerald Pelnar
Topic: 1798 Message: 1805

```
----- Original Message -----
From: "Rusty Haddock" <rusty@...>
>
> Did you compile OpenFire and Spark for the nodes themselves or the
> machines attached to them?

Just running them on the machines as a way to test if I had communication
between the nodes.

Gerald
```

1806. Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-26 16:42:48 UTC
From: John Galvin
Topic: 1798 Message: 1806

Rusty, Gerald, and all.

The two you have brought up a very key topic with respect to the mesh. I'm a user and not a developer so my question may not make sense. I am concerned that in an "event" situation where you do not have local access to the internet, but you have mesh nodes deployed at key locations in the "event" area you will be unable to communicate to computers attached to each node. If I understand correctly you have made one computer a server for the network and that one serves all the others. Not sure how smart all of us responders are to set something like this up. If the mesh nodes are all within its network could something as simple as the program LANChat on each computer work for node to node communications or something similar that is small enough to reside on the new netbook type computers. In the early days of an "event" internet may not be available for several days. There may be another solution to this scenario, so what can be done to solve this item.

Thanks , John

- -
John Galvin - N5TIM
http://www.qsl.net/n5tim for Public Service Info
http://www.garlandraces.net/

JUNK - Stuff we throw away ... STUFF - Junk we keep!

Rusty Haddock wrote:
>
>
> Gerald Pelnar wrote:
> >
> >> >Where were you 3 days ago when I learned about port 80 the hard way?
> >> I'm
> >> >just getting started, too.
> >> >
> >> Sorry Gerald, I've been right here -- just on the other side of
> Oklahoma
> >> from you. :-)
> >>
> >> I didn't see a message from you on the list so... did I miss something?
> >> Sorry. :-(
> >
> >No, you didn't miss anything. Until now, I didn't know enough to even
> ask
> >questions. I did manage to get 3 nodes working in the house with a
> computer

> >on each one. I have openfire runing on one and spark on the other 2.
> When
> >the wife asked what I was doing, I had to admit I was talking to my
> self on
> >the computer. :)
>
> No biggie -- I do it all the time -- I'm the only one that listens to
> me. :-)
>
> Did you compile OpenFire and Spark for the nodes themselves or the
> machines attached to them?
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>
>

[Non-text portions of this message have been removed]

1807. Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-26 23:54:08 UTC
From: Rusty Haddock
Topic: 1798 Message: 1807

John Galvin wrote:
>Rusty, Gerald, and all.
>
>The two you have brought up a very key topic with respect to the mesh.
>I'm a user and not a developer so my question may not make sense. I am
>concerned that in an "event" situation where you do not have local
>access to the internet, but you have mesh nodes deployed at key
>locations in the "event" area you will be unable to communicate to
>computers attached to each node.

John, that's not necessarily true. The computers attached to any node in the mesh are simply behind a firewall. This firewall is just like the one, I hope, is at your home and protecting your home network from outside access and attacks.

Now, when you "access" a computer as a server, it's providing a service - access to a particular program that's listening on an IP port or series of ports. All IP ports on that computer do not need to be opened up to the rest of the network. Several programs can be running on a computer, waiting for clients to connect to program-specifc ports on the network interface should be made available.

For instance, to access files on a Micro$oft file server, your client program will connect to port 873 on the server. This is connected to a program on the file server PC that dishes out the files. To access a mail server on a Linux machine, the client program has to open up port 25 for the SMTP server program on the server.

By default, all ports are blocked by the node or are used by the node itself. Port 80, for instance, is the usual webserver port to access the Apache, IIS, or other webserver program. This is the port is used by the node so that an admin can configure node. (BTW, this looks like it will be changed in the next release of the HSMM-MESH firmware!)

Now, from the mesh, in order to access a server you will need to open a port on the node's firewall and have that port redirected to a particular machine connected to the LAN side of the node. The "slick" feature of this firewall is that firewall openings can be redirected to a different port number.

For instance, say there are multiple PC's on the LAN side of a node, we'll call 'WebNode'. Each of those PC's are running a webserver on port 80, the standard, for various reasons. In order to be able to access all of the webservers, the firewall will need to have a separate port opened for each webserver and redirected to port 80 on each of those servers. So, you tell the node's firewall to open ports 3000, 3001, 3002, and

3003 and forward these ports to port 80 on 172.27.0.10, 0.11, 0.12, and 0.13, respectively. Accessing these from your web browser across the mesh will involve specifying the node and the port number in the URL. So, to get to the webserver on 172.27.0.10 behind WebNode you'd put the following into your browser:

http://WebNode:3000

To get to the webserver on 172.27.0.12 behind WebNode you'd use this:

http://WebNode:3002

Another way to take care of this is to put each webserver on its own node.

>If I understand correctly you have made
>one computer a server for the network and that one serves all the
>others.

Yes, but there can be multiple servers on a mesh if, by protocol, they can co-exist on a network. It would probably be best in case part of the mesh falls off the network.

>Not sure how smart all of us responders are to set something
>like this up.

This is something for more that just responders to setup. Planning for emergency service will be critical. Having the network in place and having responders' equipment setup prior to an emergency will need some networking-knowledgable people.

Keep in mind, too, that HSMM-MESH is not a replacement for the internet. It will provide connectivity although it may or may not be to the internet.

>If the mesh nodes are all within its network could
>something as simple as the program LANChat on each computer work for
>node to node communications or something similar that is small enough to
>reside on the new netbook type computers. In the early days of an
>"event" internet may not be available for several days. There may be
>another solution to this scenario, so what can be done to solve this item.

LANChat may work but I don't enough about it to say. It probably will but the firewall may need a tweaking of its configuration so that LANChat will work across the mesh.

If the internet is not available and certain services are expected from it by responders then some sort of local service would need to be provided. If LANChat won't work on a mesh, as HSMM-MESH implements it, then an alternative is called for -- maybe an XMPP-based chat server and associated clients could be used, for example.

Overall, someone involved is going to need to know something about TCP/IP networking in setting up a network and making ready the gear responders

will be using. You know as well as I that handling emergencies requires planning and training, in the general sense, not just for the particular event. Make no doubts about it -- setup of a mesh network will require some networking expertice and the users may need some training.

You're welcome to contact me directly if I can help you further understand HSMM-MESH networking.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1808. Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-27 00:07:39 UTC
From: Patrick Soileau ND5C
Topic: 1798 Message: 1808

Rusty,

Well written explanation, "professor."

Maybe you should consider a change of occupation
and teach this stuff for a living. :)

73,

Pat ND5C

--- On Fri, 2/26/10, Rusty Haddock <rusty@...tar.org> wrote:

From: Rusty Haddock <rusty@...>
Subject: Re: [ntms-hsmm] Basic Setup: Do I need to open ports?
To: ntms-hsmm@yahoogroups.com
Date: Friday, February 26, 2010, 5:54 PM

John Galvin wrote:

>Rusty, Gerald, and all.

>

>The two you have brought up a very key topic with respect to the mesh.

>I'm a user and not a developer so my question may not make sense. I am

>concerned that in an "event" situation where you do not have local

>access to the internet, but you have mesh nodes deployed at key

>locations in the "event" area you will be unable to communicate to

>computers attached to each node.

John, that's not necessarily true. The computers attached to any node

in the mesh are simply behind a firewall. This firewall is just like

the one, I hope, is at your home and protecting your home network from

outside access and attacks.

Now, when you "access" a computer as a server, it's providing a service -

access to a particular program that's listening on an IP port or series

of ports. All IP ports on that computer do not need to be opened up to

the rest of the network. Several programs can be running on a computer, waiting for clients to connect to program-specifc ports on the network interface should be made available.

For instance, to access files on a Micro$oft file server, your client program will connect to port 873 on the server. This is connected to a program on the file server PC that dishes out the files. To access a mail server on a Linux machine, the client program has to open up port 25 for the SMTP server program on the server.

By default, all ports are blocked by the node or are used by the node itself. Port 80, for instance, is the usual webserver port to access the Apache, IIS, or other webserver program. This is the port is used by the node so that an admin can configure node. (BTW, this looks like it will be changed in the next release of the HSMM-MESH firmware!)

Now, from the mesh, in order to access a server you will need to open a port on the node's firewall and have that port redirected to a particular machine connected to the LAN side of the node. The "slick" feature of this firewall is that firewall openings can be redirected to a different port number.

For instance, say there are multiple PC's on the LAN side of a node, we'll call 'WebNode'. Each of those PC's are running a webserver on port 80, the standard, for various reasons. In order to be able to access all of the webservers, the firewall will need to have a separate port opened for each webserver and redirected to port 80 on each of those servers.

So, you tell the node's firewall to open ports 3000, 3001, 3002, and 3003 and forward these ports to port 80 on 172.27.0.10, 0.11, 0.12, and 0.13, respectively. Accessing these from your web browser across the mesh will involve specifying the node and the port number in the URL.

So, to get to the webserver on 172.27.0.10 behind WebNode you'd put the following into your browser:

http://WebNode: 3000

To get to the webserver on 172.27.0.12 behind WebNode you'd use this:

http://WebNode: 3002

Another way to take care of this is to put each webserver on its own node.

>If I understand correctly you have made

>one computer a server for the network and that one serves all the

>others.

Yes, but there can be multiple servers on a mesh if, by protocol, they

can co-exist on a network. It would probably be best in case part of

the mesh falls off the network.

>Not sure how smart all of us responders are to set something

>like this up.

This is something for more that just responders to setup. Planning for

emergency service will be critical. Having the network in place and

having responders' equipment setup prior to an emergency will need some

networking-knowledg able people.

Keep in mind, too, that HSMM-MESH is not a replacement for the internet.

It will provide connectivity although it may or may not be to the

internet.

>If the mesh nodes are all within its network could

>something as simple as the program LANChat on each computer work for

>node to node communications or something similar that is small enough to

>reside on the new netbook type computers. In the early days of an

>"event" internet may not be available for several days. There may be

>another solution to this scenario, so what can be done to solve this item.

LANChat may work but I don't enough about it to say. It probably will

but the firewall may need a tweaking of its configuration so that LANChat

will work across the mesh.

If the internet is not available and certain services are expected

from it by responders then some sort of local service would need to be provided. If LANChat won't work on a mesh, as HSMM-MESH implements it, then an alternative is called for -- maybe an XMPP-based chat server and associated clients could be used, for example.

Overall, someone involved is going to need to know something about TCP/IP networking in setting up a network and making ready the gear responders will be using. You know as well as I that handling emergencies requires planning and training, in the general sense, not just for the particular event. Make no doubts about it -- setup of a mesh network will require some networking expertice and the users may need some training.

You're welcome to contact me directly if I can help you further understand HSMM-MESH networking.

-Rusty-

--

_____ Rusty Haddock <=> AE5AE

|\/ o \ o Way out yonder in the

| (-< O o Van Alstyne (TX) Metropolitan Area

|/__V__/ Math illiteracy affects 7 out of 5 people!

[Non-text portions of this message have been removed]

1809. Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-27 00:37:05 UTC
From: Gerald Pelnar
Topic: 1798 Message: 1809

Thanks Rusty,

----- Original Message -----
From: "Rusty Haddock" <rusty@...>

>
> You're welcome to contact me directly if I can help you further understand
> HSMM-MESH networking.

If you guys don't mind, I'd like to see the discussion left here. It may
save answering the same questions over and over.

Gerald WD0FYF

1810. Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-27 00:42:27 UTC
From: Gerald Pelnar
Topic: 1798 Message: 1810

----- Original Message -----
From: "Rusty Haddock" <rusty@...>

> >If the mesh nodes are all within its network could
> >something as simple as the program LANChat on each computer work for
> >node to node communications or something similar that is small enough
> to
> >reside on the new netbook type computers. In the early days of an
> >"event" internet may not be available for several days. There may be
> >another solution to this scenario, so what can be done to solve this
> item.
>
> LANChat may work but I don't enough about it to say. It probably will
> but the firewall may need a tweaking of its configuration so that LANChat
> will work across the mesh.
>

I tool a quick look at LANChat. It's a simple one room chat that doesn't use a server. You might have to open the ports it uses on all nodes rather than just on the one running the server. I was trying to provide a chat server on the mesh, so it wouldn't need an internet based server. LANChat may even work better, in the event of loss of the server node.

Gerald

1811. Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-27 02:36:18 UTC
From: John Galvin
Topic: 1798 Message: 1811

Great response. I appreciate you taking the time to explain all this. You hit on one of my concerns and that is having the gear set up, user tested and ready to go. As you say this will take training. Kip has been doing a good job of building a team here.

Thanks, John

- -
John Galvin - N5TIM
http://www.qsl.net/n5tim for Public Service Info
http://www.garlandraces.net/

JUNK - Stuff we throw away ... STUFF - Junk we keep!

Rusty Haddock wrote:
>
>
> John Galvin wrote:
> >Rusty, Gerald, and all.
> >
> >The two you have brought up a very key topic with respect to the mesh.
> >I'm a user and not a developer so my question may not make sense. I am
> >concerned that in an "event" situation where you do not have local
> >access to the internet, but you have mesh nodes deployed at key
> >locations in the "event" area you will be unable to communicate to
> >computers attached to each node.
>
> John, that's not necessarily true. The computers attached to any node
> in the mesh are simply behind a firewall. This firewall is just like
> the one, I hope, is at your home and protecting your home network from
> outside access and attacks.
>
> Now, when you "access" a computer as a server, it's providing a service -
> access to a particular program that's listening on an IP port or series
> of ports. All IP ports on that computer do not need to be opened up to
> the rest of the network. Several programs can be running on a computer,
> waiting for clients to connect to program-specifc ports on the network
> interface should be made available.
>
> For instance, to access files on a Micro$oft file server, your client
> program will connect to port 873 on the server. This is connected to
> a program on the file server PC that dishes out the files. To access a
> mail server on a Linux machine, the client program has to open up port
> 25 for the SMTP server program on the server.
>
> By default, all ports are blocked by the node or are used by the node

> itself. Port 80, for instance, is the usual webserver port to access
> the Apache, IIS, or other webserver program. This is the port is used
> by the node so that an admin can configure node. (BTW, this looks like
> it will be changed in the next release of the HSMM-MESH firmware!)
>
> Now, from the mesh, in order to access a server you will need to open a
> port on the node's firewall and have that port redirected to a particular
> machine connected to the LAN side of the node. The "slick" feature of
> this firewall is that firewall openings can be redirected to a different
> port number.
>
> For instance, say there are multiple PC's on the LAN side of a node, we'll
> call 'WebNode'. Each of those PC's are running a webserver on port 80,
> the standard, for various reasons. In order to be able to access all of
> the webservers, the firewall will need to have a separate port opened
> for each webserver and redirected to port 80 on each of those servers.
> So, you tell the node's firewall to open ports 3000, 3001, 3002, and
> 3003 and forward these ports to port 80 on 172.27.0.10, 0.11, 0.12, and
> 0.13, respectively. Accessing these from your web browser across the
> mesh will involve specifying the node and the port number in the URL.
> So, to get to the webserver on 172.27.0.10 behind WebNode you'd put the
> following into your browser:
>
> http://WebNode:3000 <http://WebNode:3000>
>
> To get to the webserver on 172.27.0.12 behind WebNode you'd use this:
>
> http://WebNode:3002 <http://WebNode:3002>
>
> Another way to take care of this is to put each webserver on its own node.
>
> >If I understand correctly you have made
> >one computer a server for the network and that one serves all the
> >others.
>
> Yes, but there can be multiple servers on a mesh if, by protocol, they
> can co-exist on a network. It would probably be best in case part of
> the mesh falls off the network.
>
> >Not sure how smart all of us responders are to set something
> >like this up.
>
> This is something for more that just responders to setup. Planning for
> emergency service will be critical. Having the network in place and
> having responders' equipment setup prior to an emergency will need some
> networking-knowledgable people.
>
> Keep in mind, too, that HSMM-MESH is not a replacement for the internet.
> It will provide connectivity although it may or may not be to the
> internet.

>
> >If the mesh nodes are all within its network could
> >something as simple as the program LANChat on each computer work for
> >node to node communications or something similar that is small enough to
> >reside on the new netbook type computers. In the early days of an
> >"event" internet may not be available for several days. There may be
> >another solution to this scenario, so what can be done to solve this
> item.
>
> LANChat may work but I don't enough about it to say. It probably will
> but the firewall may need a tweaking of its configuration so that LANChat
> will work across the mesh.
>
> If the internet is not available and certain services are expected
> from it by responders then some sort of local service would need to be
> provided. If LANChat won't work on a mesh, as HSMM-MESH implements it,
> then an alternative is called for -- maybe an XMPP-based chat server
> and associated clients could be used, for example.
>
> Overall, someone involved is going to need to know something about TCP/IP
> networking in setting up a network and making ready the gear responders
> will be using. You know as well as I that handling emergencies requires
> planning and training, in the general sense, not just for the particular
> event. Make no doubts about it -- setup of a mesh network will require
> some networking expertice and the users may need some training.
>
> You're welcome to contact me directly if I can help you further understand
> HSMM-MESH networking.
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
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> |/__V__/ Math illiteracy affects 7 out of 5 people!
>
>

[Non-text portions of this message have been removed]

1812. Re: [ntms-hsmm] Basic Setup: Do I need to open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-27 04:45:53 UTC
From: Rusty Haddock
Topic: 1798 Message: 1812

<whew> I knew I was hitting a lot of nails on the head but I was a little worried that I was hitting the *right* nails. :-) Hope those explanations were useful to the group.

It all goes back to that old Boy Scouts' motto -- "Always be prepared!" I know Kip experienced his trials and tribulations working with other firmware for WiFi routers especialy having to figure out how to reconfigure the routers in the field. The HSMM-MESH load of OpenWrt is just plain simple, even if the hardware doesn't hold its configuration and you have to reconfigure in the field. The folks in Austin deserve our thanks! And there's more to come!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
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|/__V__/ Math illiteracy affects 7 out of 5 people!

1813. Re: Basic Setup: How do I open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-27 18:53:19 UTC
From: kc5sii
Topic: 1798 Message: 1813

Ok, I've had a little time to cogitate on this. The answer to my question is yes. I have to punch holes in the firewall to get much more than Internet connection sharing. And only HTTP: at that.

I know the focus is on security. Let's sideline those concerns for the time being and concentrate on the primary purpose of most LANS. "Print and file sharing"

I want all the nodes on my mesh to be able to browse to any available resource, primarily Micro$oft hosts, sharing data or peripheries. What do I have to do to make that happen? It doesn't make sense for people to have to figure out how to make resources available via port 80.

If I'm correct, there's a file in the LINUX directory structure that we can edit to make those services something that gets passed (Versus blocked) by the router.

A second, sort of unrelated, question. We've had a few lengthy discussions but haven't come to a conclusion here. Should each Mesh node have it's own LAN Subnet? The only way I've been able to get it to work is to assign a different subnet to each LAN off each Router. Or maybe, via NAT does it matter?

Thanks for your expertise in advance.

Dave,
KC5SII

--- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> kc5sii wrote:
> >...
>
> >I think I still have some configuration to do with port
> >forwarding. If I understand it correctly, by default, the router will
> >not route any traffic to the LAN. I think I've figured out that
>
> Correct.
>
> >I must first open ports to allow the router to pass the traffic.
>
> Correct again.
>
> >I'm not exactly sure how to do that. I think I might be able
> >to muddle through setting up common ports like 80 or something.
>
> From the status page, go to setup. After entering the password and
> arriving at the setup page, click on "Port Forwarding and DHCP" at
> the top.
>

> Now, port 80 is already used by the node, on all interfaces (WAN, LAN,
> and WLAN), for its webserver to configure the node. You might want to
> pass another port, say 8080, but have the iptables software translate
> that back to port 80 on its way onto to the LAN PC (172.27.0.xx).
>
> >But what about regular traffic like file sharing between two XP
> >machines and computer browsing. Is there a way just to open it up
> >entirely for on net verses off net traffic?
>
> You could always turn off the firewall/NAT but... if on XP machine is
> on one node and the other XP machine is attached to a different node
> they can't address each other. Both will probably have the IP address
> of 172.27.0.10. You think, "Well, maybe I'll assign static addresses on
> the LAN side." Nice try but node's router will keep those 172.27.0.xx
> addresses on the LAN side. Poke holes in the firewall to go to a
> particular PC on the LAN side of the node.
>
> Port 445 is used by Micro$oft for its file sharing. See the knowledge
> base on Micro$oft's website to find out what ports are used by their
> software.
>
> > Some screen shot examples would ge great. I think if I see what
> >goes where, I'll have a better idea how to proceed.
>
> I think it's fairly straight forward but holler if you have problems
> or questions. OK?
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
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>

1814. Re: [ntms-hsmm] Re: Basic Setup: How do I open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-27 21:29:05 UTC
From: Kipton Moravec
Topic: 1798 Message: 1814

Here is the problem.

The router does network address translation. It also gives out a dynamic address when you plug it in.

So the router has an address of say 10.1.1.1. But it hands out addresses 172.27.0.100 to 172.27.0.200. The PC you plug in can have any of those 101 addresses.

When you open a hole in the firewall you open a specific port to forward to a specific IP address and specific port. But in general you do not know what that ip address will be.

One way around it which I have configured, is I set up LAN Port 1 to have it's own address range and it automatically hands out only one address. 172.28.0.2. Now you can open up ports to that address. And can do what you want.

But it also means that the other PC's plugged into the other ports work the old way, but you have one PC per Router that can work pier-to-pier, the other PC's on the router can not.

That is why it is better to have a server. And that is how the Internet works. You connect to the servers.

On Sat, 2010-02-27 at 18:53 +0000, kc5sii wrote:
> Ok, I've had a little time to cogitate on this. The answer to my question is yes. I have to punch holes in the firewall to get much more than Internet connection sharing. And only HTTP: at that.
>
> I know the focus is on security. Let's sideline those concerns for the time being and concentrate on the primary purpose of most LANS. "Print and file sharing"
>
> I want all the nodes on my mesh to be able to browse to any available resource, primarily Micro$oft hosts, sharing data or peripheries. What do I have to do to make that happen? It doesn't make sense for people to have to figure out how to make resources available via port 80.
>
> If I'm correct, there's a file in the LINUX directory structure that we can edit to make those services something that gets passed (Versus blocked) by the router.
>
> A second, sort of unrelated, question. We've had a few lengthy discussions but haven't come to a conclusion here. Should each Mesh node have it's own LAN Subnet? The only way I've been able to get it to work is to assign a different subnet to each LAN off each Router. Or maybe, via NAT does it matter?
>
>

> Thanks for your expertise in advance.
>
> Dave,
> KC5SII
>
>
>
>
> --- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
> >
> > kc5sii wrote:
> > >...
> >
> > >I think I still have some configuration to do with port
> > >forwarding. If I understand it correctly, by default, the router will
> > >not route any traffic to the LAN. I think I've figured out that
> >
> > Correct.
> >
> > >I must first open ports to allow the router to pass the traffic.
> >
> > Correct again.
> >
> > >I'm not exactly sure how to do that. I think I might be able
> > >to muddle through setting up common ports like 80 or something.
> >
> > From the status page, go to setup. After entering the password and
> > arriving at the setup page, click on "Port Forwarding and DHCP" at
> > the top.
> >
> > Now, port 80 is already used by the node, on all interfaces (WAN, LAN,
> > and WLAN), for its webserver to configure the node. You might want to
> > pass another port, say 8080, but have the iptables software translate
> > that back to port 80 on its way onto to the LAN PC (172.27.0.xx).
> >
> > >But what about regular traffic like file sharing between two XP
> > >machines and computer browsing. Is there a way just to open it up
> > >entirely for on net verses off net traffic?
> >
> > You could always turn off the firewall/NAT but... if on XP machine is
> > on one node and the other XP machine is attached to a different node
> > they can't address each other. Both will probably have the IP address
> > of 172.27.0.10. You think, "Well, maybe I'll assign static addresses on
> > the LAN side." Nice try but node's router will keep those 172.27.0.xx
> > addresses on the LAN side. Poke holes in the firewall to go to a
> > particular PC on the LAN side of the node.
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```
> >
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> ------------------------------------
>
> Yahoo! Groups Links
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>
--
Kipton Moravec AE5IB .- . ..... .. -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain
```

1815. wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2010-02-27 21:30:49 UTC
From: Kilgore
Topic: 1815 Message: 1815

Another ham to MESH.

On 2/27/2010 10:11 AM, Yahoo! Groups Notification wrote:
> Hello,
>
> The following person would like to join the ntms-hsmm group:
> Email address: kd5ktb@...<kd5ktb@...>
>
> Comment from user:
> Tim McAnally KD5KTB, Enid Amateur Radio Club, Operator of 2 IRLP nodes
> 8710 and 3198. Building some HSMM-MESH systems.
>
>

1816. Re: Basic Setup: How do I open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-27 21:37:49 UTC
From: kc5sii
Topic: 1798 Message: 1816

So, it's not possible for a router to route ALL non-local traffic reguardlsess of port?

Dave

--- In ntms-hsmm@yahoogroups.com, Kipton Moravec <kip@...> wrote:
>
> Here is the problem.
>
> The router does network address translation. It also gives out a dynamic
> address when you plug it in.
>
> So the router has an address of say 10.1.1.1. But it hands out addresses
> 172.27.0.100 to 172.27.0.200. The PC you plug in can have any of those
> 101 addresses.
>
> When you open a hole in the firewall you open a specific port to forward
> to a specific IP address and specific port. But in general you do not
> know what that ip address will be.
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> One way around it which I have configured, is I set up LAN Port 1 to
> have it's own address range and it automatically hands out only one
> address. 172.28.0.2. Now you can open up ports to that address. And can
> do what you want.
>
> But it also means that the other PC's plugged into the other ports work
> the old way, but you have one PC per Router that can work pier-to-pier,
> the other PC's on the router can not.
>
> That is why it is better to have a server. And that is how the Internet
> works. You connect to the servers.
>
>
>
> On Sat, 2010-02-27 at 18:53 +0000, kc5sii wrote:
> > Ok, I've had a little time to cogitate on this. The answer to my question is yes. I
have to punch holes in the firewall to get much more than Internet connection sharing. And
only HTTP: at that.
> >
> > I know the focus is on security. Let's sideline those concerns for the time being and
concentrate on the primary purpose of most LANS. "Print and file sharing"
> >
> > I want all the nodes on my mesh to be able to browse to any available resource,
primarily Micro$oft hosts, sharing data or peripheries. What do I have to do to make that
happen? It doesn't make sense for people to have to figure out how to make resources
available via port 80.

> >
> > If I'm correct, there's a file in the LINUX directory structure that we can edit to make those services something that gets passed (Versus blocked) by the router.
> >
> > A second, sort of unrelated, question. We've had a few lengthy discussions but haven't come to a conclusion here. Should each Mesh node have it's own LAN Subnet? The only way I've been able to get it to work is to assign a different subnet to each LAN off each Router. Or maybe, via NAT does it matter?
> >
> >
> > Thanks for your expertise in advance.
> >
> > Dave,
> > KC5SII
> >
> >
> >
> >
> > --- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@> wrote:
> > >
> > > kc5sii wrote:
> > > >...
> > >
> > > >I think I still have some configuration to do with port
> > > >forwarding. If I understand it correctly, by default, the router will
> > > >not route any traffic to the LAN. I think I've figured out that
> > >
> > > Correct.
> > >
> > > >I must first open ports to allow the router to pass the traffic.
> > >
> > > Correct again.
> > >
> > > >I'm not exactly sure how to do that. I think I might be able
> > > >to muddle through setting up common ports like 80 or something.
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> > > arriving at the setup page, click on "Port Forwarding and DHCP" at
> > > the top.
> > >
> > > Now, port 80 is already used by the node, on all interfaces (WAN, LAN,
> > > and WLAN), for its webserver to configure the node. You might want to
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> > > >machines and computer browsing. Is there a way just to open it up
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> > > You could always turn off the firewall/NAT but... if on XP machine is

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> > > of 172.27.0.10. You think, "Well, maybe I'll assign static addresses on
> > > the LAN side." Nice try but node's router will keep those 172.27.0.xx
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> > > software.
> > >
> > > > Some screen shot examples would ge great. I think if I see what
> > > >goes where, I'll have a better idea how to proceed.
> > >
> > > I think it's fairly straight forward but holler if you have problems
> > > or questions. OK?
> > >
> > > -Rusty-
> > > --
> > > _____ Rusty Haddock <=> AE5AE
> > > |\/ o \ o Way out yonder in the
> > > | (-< O o Van Alstyne (TX) Metropolitan Area
> > > |/__V__/ Math illiteracy affects 7 out of 5 people!
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> > ------------------------------------
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> > Yahoo! Groups Links
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> --
> Kipton Moravec AE5IB .- . ... -...
>
> "Always do right; this will gratify some people and astonish the rest."
> --Mark Twain
>

1817. Re: [ntms-hsmm] Re: Basic Setup: How do I open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-28 11:06:53 UTC
From: Rusty Haddock
Topic: 1798 Message: 1817

kc5sii wrote:

> Ok, I've had a little time to cogitate on this. The answer to my
>question is yes. I have to punch holes in the firewall to get much
>more than Internet connection sharing. And only HTTP: at that.

Dave, you were OK up until that last sentence. Everything does not
have to accessed through HTTP. Like I wrote earlier, if you want file
sharing just open up port 445 for a Win*ows PC. And that port will be
directed to a single machine on the LAN of the router.

> I know the focus is on security. Let's sideline those concerns for
>the time being and concentrate on the primary purpose of most LANS.
>"Print and file sharing"

Ah ha! <light-bulb>

This is probably the key to your concerns right here: you are wanting
our HSMM-MESH to be a LAN. The way I see it, HSMM-MESH is not really a
LAN technology as we've implemented it. It is not really about sharing
resources (as you are wanting) and more about connectivity between
LANs (like between hospitals, FDs, PDs, EOCs, etc for emergency work)
as well as for communicating (messaging of various sorts like email,
text chats, VOIP, video, etc). Since the little EUREKA moment there,
I coming to believe that HSMM-MESH is more about being a WAN. Yes,
some resource sharing can be useful but not on the scale you would see
on most office LANs.

Putting resources on a mesh, per se, can be a rather daunting task as
you're finding out. It probably wouldn't be effective until we implement
some sort of service discovery protocol and methodology. Hmmmm....

> I want all the nodes on my mesh to be able to browse to any available
>resource, primarily Micro$oft hosts, sharing data or peripheries.
>What do I have to do to make that happen? It doesn't make sense for
>people to have to figure out how to make resources available via port 80.

I'm not trying to be curt but, *for the time being*, I'm coming around to
idea that you'd be better off using another technology.

>A second, sort of unrelated, question. We've had a few lengthy
>discussions but haven't come to a conclusion here. Should each
>Mesh node have it's own LAN Subnet? The only way I've been able to
>get it to work is to assign a different subnet to each LAN off each
>Router. Or maybe, via NAT does it matter?

If by 'get it to work' you mean making all the hosts on the LAN side visible to the mesh... it's probably different subnets on each LAN but... now each node has to be configured differently and that's actually what the HSMM-MESH was trying to get away from.

Good luck!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1818. Re: Basic Setup: How do I open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-28 15:08:45 UTC
From: kc5sii
Topic: 1798 Message: 1818

Ok, We're on the same page now. The mesh network is not designed to provide generic file and print sharing type services.

Has anyone tried a VPN via the Mesh? That might be the solution I'm looking for.

Dave,
KC5SII

--- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> kc5sii wrote:
>
> > Ok, I've had a little time to cogitate on this. The answer to my
> >question is yes. I have to punch holes in the firewall to get much
> >more than Internet connection sharing. And only HTTP: at that.
>
> Dave, you were OK up until that last sentence. Everything does not
> have to accessed through HTTP. Like I wrote earlier, if you want file
> sharing just open up port 445 for a Win*ows PC. And that port will be
> directed to a single machine on the LAN of the router.
>
> > I know the focus is on security. Let's sideline those concerns for
> >the time being and concentrate on the primary purpose of most LANS.
> >"Print and file sharing"
>
> Ah ha! <light-bulb>
>
> This is probably the key to your concerns right here: you are wanting
> our HSMM-MESH to be a LAN. The way I see it, HSMM-MESH is not really a
> LAN technology as we've implemented it. It is not really about sharing
> resources (as you are wanting) and more about connectivity between
> LANs (like between hospitals, FDs, PDs, EOCs, etc for emergency work)
> as well as for communicating (messaging of various sorts like email,
> text chats, VOIP, video, etc). Since the little EUREKA moment there,
> I coming to believe that HSMM-MESH is more about being a WAN. Yes,
> some resource sharing can be useful but not on the scale you would see
> on most office LANs.
>
> Putting resources on a mesh, per se, can be a rather daunting task as
> you're finding out. It probably wouldn't be effective until we implement
> some sort of service discovery protocol and methodology. Hmmmm....
>
> > I want all the nodes on my mesh to be able to browse to any available
> >resource, primarily Micro$oft hosts, sharing data or peripheries.
> >What do I have to do to make that happen? It doesn't make sense for
> >people to have to figure out how to make resources available via port 80.

>
> I'm not trying to be curt but, *for the time being*, I'm coming around to
> idea that you'd be better off using another technology.
>
> >A second, sort of unrelated, question. We've had a few lengthy
> >discussions but haven't come to a conclusion here. Should each
> >Mesh node have it's own LAN Subnet? The only way I've been able to
> >get it to work is to assign a different subnet to each LAN off each
> >Router. Or maybe, via NAT does it matter?
>
> If by 'get it to work' you mean making all the hosts on the LAN side
> visible to the mesh... it's probably different subnets on each LAN
> but... now each node has to be configured differently and that's actually
> what the HSMM-MESH was trying to get away from.
>
> Good luck!
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>

1819. Re: [ntms-hsmm] Re: Basic Setup: How do I open ports?

Yahoo group: DAWG-HSMM
Date: 2010-02-28 20:53:08 UTC
From: Rusty Haddock
Topic: 1798 Message: 1819

kc5sii wrote:
> Ok, We're on the same page now. The mesh network is not designed
>to provide generic file and print sharing type services.

Dave, I wouldn't go quite that far. It's just rather problematic with the HSMM-MESH when you want a bunch of PCs, hooked to the LAN side of one router, to each provide the same services to the rest of the mesh. It's simply not an issue when only one of them does it or each provides a difference service.

> Has anyone tried a VPN via the Mesh? That might be the solution
>I'm looking for.

The mesh is still TCP/IP so VPN will run through it. There will still be issues unless you modify the IP addresses dished out on each node's LAN, so they won't all be the same. One PC addressed as 172.27.0.101 on one node's LAN will conflict with another PC addressed the same on a different node's LAN when the two LANs are connected via VPN.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1820. TAPR PSR Digital Journal Winter 2010 and ARRL/TAPR DCC Proceedings On-Line

Yahoo group: DAWG-HSMM
Date: 2010-03-05 01:34:57 UTC
From: Mark Thompson
Topic: 1820 Message: 1820

TAPR Winter 2010 PSR Journal Now On-Line at:

www.tapr.org/psr/psr110.pdf

TAPR DCC (Digital Communication Conference) Proceedings Now On-Line at:

www.tapr.org/pub_dcc.html

TAPR DCC (Digital Communication Conference) Proceedings Now On-Line at:
www.tapr.org/pub_dcc.html

[Non-text portions of this message have been removed]

1821. Re: [ntms-hsmm] Re: Basic Setup: How do I open ports?

Yahoo group: DAWG-HSMM
Date: 2010-03-09 14:37:51 UTC
From: Gregg Wonderly
Topic: 1798 Message: 1821

You can also hand out fixed address based on MAC address so that when a particular computer uses DHCP to get an address, it always gets the same address. Then it doesn't matter what port that computer appears on. It does mean that if the computer that provides the service changes, then you need to change the MAC address. But, you can also use a USB->ethernet adapter, or some other "removable" ethernet interface on the server so that you can move the service between computers by just moving the USB->ethernet adapter to the appropriate computer.

Lots of ways to skin the cat if you just know what cat skinning is and how to do it (carefully).

Gregg Wonderly
W5GGW

Kipton Moravec wrote:
> Here is the problem.
>
> The router does network address translation. It also gives out a dynamic
> address when you plug it in.
>
> So the router has an address of say 10.1.1.1. But it hands out addresses
> 172.27.0.100 to 172.27.0.200. The PC you plug in can have any of those
> 101 addresses.
>
> When you open a hole in the firewall you open a specific port to forward
> to a specific IP address and specific port. But in general you do not
> know what that ip address will be.
>
> One way around it which I have configured, is I set up LAN Port 1 to
> have it's own address range and it automatically hands out only one
> address. 172.28.0.2. Now you can open up ports to that address. And can
> do what you want.
>
> But it also means that the other PC's plugged into the other ports work
> the old way, but you have one PC per Router that can work pier-to-pier,
> the other PC's on the router can not.
>
> That is why it is better to have a server. And that is how the Internet
> works. You connect to the servers.
>
>
>
> On Sat, 2010-02-27 at 18:53 +0000, kc5sii wrote:
>> Ok, I've had a little time to cogitate on this. The answer to my question is yes. I have to punch holes in the firewall to get much more than Internet connection sharing. And only

HTTP: at that.
>>
>> I know the focus is on security. Let's sideline those concerns for the time being and concentrate on the primary purpose of most LANS. "Print and file sharing"
>>
>> I want all the nodes on my mesh to be able to browse to any available resource, primarily Micro$oft hosts, sharing data or peripheries. What do I have to do to make that happen? It doesn't make sense for people to have to figure out how to make resources available via port 80.
>>
>> If I'm correct, there's a file in the LINUX directory structure that we can edit to make those services something that gets passed (Versus blocked) by the router.
>>
>> A second, sort of unrelated, question. We've had a few lengthy discussions but haven't come to a conclusion here. Should each Mesh node have it's own LAN Subnet? The only way I've been able to get it to work is to assign a different subnet to each LAN off each Router. Or maybe, via NAT does it matter?
>>
>>
>> Thanks for your expertise in advance.
>>
>> Dave,
>> KC5SII
>>
>>
>>
>>
>> --- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>>> kc5sii wrote:
>>> >...
>>>
>>> >I think I still have some configuration to do with port
>>> >forwarding. If I understand it correctly, by default, the router will
>>> >not route any traffic to the LAN. I think I've figured out that
>>>
>>> Correct.
>>>
>>> >I must first open ports to allow the router to pass the traffic.
>>>
>>> Correct again.
>>>
>>> >I'm not exactly sure how to do that. I think I might be able
>>> >to muddle through setting up common ports like 80 or something.
>>>
>>> From the status page, go to setup. After entering the password and
>>> arriving at the setup page, click on "Port Forwarding and DHCP" at
>>> the top.
>>>
>>> Now, port 80 is already used by the node, on all interfaces (WAN, LAN,
>>> and WLAN), for its webserver to configure the node. You might want to
>>> pass another port, say 8080, but have the iptables software translate

```
>>> that back to port 80 on its way onto to the LAN PC (172.27.0.xx).
>>>
>>> >But what about regular traffic like file sharing between two XP
>>> >machines and computer browsing. Is there a way just to open it up
>>> >entirely for on net verses off net traffic?
>>>
>>> You could always turn off the firewall/NAT but... if on XP machine is
>>> on one node and the other XP machine is attached to a different node
>>> they can't address each other. Both will probably have the IP address
>>> of 172.27.0.10. You think, "Well, maybe I'll assign static addresses on
>>> the LAN side." Nice try but node's router will keep those 172.27.0.xx
>>> addresses on the LAN side. Poke holes in the firewall to go to a
>>> particular PC on the LAN side of the node.
>>>
>>> Port 445 is used by Micro$oft for its file sharing. See the knowledge
>>> base on Micro$oft's website to find out what ports are used by their
>>> software.
>>>
>>> > Some screen shot examples would ge great. I think if I see what
>>> >goes where, I'll have a better idea how to proceed.
>>>
>>> I think it's fairly straight forward but holler if you have problems
>>> or questions. OK?
>>>
>>> -Rusty-
>>> --
>>> _____ Rusty Haddock <=> AE5AE
>>> |\/ o \ o Way out yonder in the
>>> | ( -< O o Van Alstyne (TX) Metropolitan Area
>>> |/\__V__/ Math illiteracy affects 7 out of 5 people!
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1822. K5PRK-AP1 In operation

Yahoo group: DAWG-HSMM
Date: 2010-03-09 15:13:23 UTC
From: Kipton Moravec
Topic: 1822 Message: 1822

The first HSMM-MESH node is up and operating at the PARK repeater site on Bethany and US75 in Allen. We believe we got it fixed on Saturday.

We will be testing in the next few weeks to see how far we can reach.

Kip
--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1823. Re: [ntms-hsmm] K5PRK-AP1 In operation

Yahoo group: DAWG-HSMM
Date: 2010-03-09 23:17:38 UTC
From: Bob Diepenbrock
Topic: 1822 Message: 1823

Wow...

How high? Would it be possible to hit that from Murphy with a beam perhaps?

-= Bob =-

On Tue, Mar 9, 2010 at 9:13 AM, Kipton Moravec <kip@...> wrote:

>
>
> The first HSMM-MESH node is up and operating at the PARK repeater site
> on Bethany and US75 in Allen. We believe we got it fixed on Saturday.
>
> We will be testing in the next few weeks to see how far we can reach.
>
> Kip
> --
> Kipton Moravec AE5IB .- . ... -...
>
> "Always do right; this will gratify some people and astonish the rest."
> --Mark Twain
>
>
>

[Non-text portions of this message have been removed]

1824. New file uploaded to ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2010-03-10 14:13:03 UTC
From: ntms-hsmm@yahoogroups.com
Topic: 38 Message: 1824

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the ntms-hsmm
group.

File : /HOW DID WE GET OUR APPLICATIONS UP.rtf
Uploaded by : whwallacemo1 <bill@...>
Description :

You can access this file at the URL:
http://groups.yahoo.com/group/ntms-hsmm/files/HOW%20DID%20WE%20GET%20OUR%20APPLICATIONS%20UP.rtf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles

Regards,

whwallacemo1 <bill@...>

1825. Re: [ntms-hsmm] Join us for HSMM-MESH Networking Webinar Saturday, Feb. 6, 2010

Yahoo group: DAWG-HSMM
Date: 2010-03-10 19:42:08 UTC
From: Gregg Wonderly
Topic: 1777 Message: 1825

Was there any decision on hosting the video somewhere? Youtube might be a good choice. It could be cut down to segments to meet Youtube length requirements as needed. I can help do all of that if I can have access to the video in its entirety to download and process appropriately I believe.

Gregg Wonderly
W5GGW

Kilgore wrote:
> We plan to record it using the Webinar software capablity. At this time
> we have not worked out a system for later download of a very large file.
>
> We'll work on it.
>
> Doug Kilgore KD5OUG
>
> On 2/1/2010 6:28 PM, Bill V WA7NWP wrote:
>> Is there any chance that the webinar video archive will be available
>> later for download?
>>
>> It sounds like you're making some great progress...
>>
>> 73
>> Bill - WA7NWP
>>
>>
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> Yahoo! Groups Links
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1826. Re: [ntms-hsmm] Join us for HSMM-MESH Networking Webinar Saturday, Feb. 6, 2010

Yahoo group: DAWG-HSMM
Date: 2010-03-10 19:57:51 UTC
From: David McAnally
Topic: 1777 Message: 1826

If someone can provide a copy of the recorded WebInar, either on DVD or possibly via network, I should also be able to convert it to a video stream for Internet access. I know the WebInar recording may too large to many host services, which is why I convert it. I can host it on my streaming server if necessary. Plenty of network bandwidth, just limited file space. I have an audio recording of the Webinar, but video and audio would be better.

David McAnally
WD5M

On Wed, Mar 10, 2010 at 1:42 PM, Gregg Wonderly <gergg@...> wrote:

> Was there any decision on hosting the video somewhere? Youtube might be a
> good
> choice. It could be cut down to segments to meet Youtube length
> requirements as
> needed. I can help do all of that if I can have access to the video in its
> entirety to download and process appropriately I believe.
>
> Gregg Wonderly
> W5GGW
>
> Kilgore wrote:
> > We plan to record it using the Webinar software capablity. At this time
> > we have not worked out a system for later download of a very large file.
> >
> > We'll work on it.
> >
> > Doug Kilgore KD5OUG
> >
> > On 2/1/2010 6:28 PM, Bill V WA7NWP wrote:
> >> Is there any chance that the webinar video archive will be available
> >> later for download?
> >>
> >> It sounds like you're making some great progress...
> >>
> >> 73
> >> Bill - WA7NWP
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[Non-text portions of this message have been removed]

1827. Re: [ntms-hsmm] K5PRK-AP1 In operation

Yahoo group: DAWG-HSMM
Date: 2010-03-12 20:28:08 UTC
From: Kipton Moravec
Topic: 1822 Message: 1827

On Tue, 2010-03-09 at 17:17 -0600, Bob Diepenbrock wrote:
> Wow...
>
> How high? Would it be possible to hit that from Murphy with a beam
> perhaps?
>
> -= Bob =-
>

Sorry for the late response. I just got out of the hospital.

It is about 180 feet Above Ground Level. We have not done range testing
yet, but I think you should be able to hit it from Murphy if you are
above the trees, or can see it from the ground.

> On Tue, Mar 9, 2010 at 9:13 AM, Kipton Moravec <kip@...> wrote:
>
> >
> >
> > The first HSMM-MESH node is up and operating at the PARK repeater site
> > on Bethany and US75 in Allen. We believe we got it fixed on Saturday.
> >
> > We will be testing in the next few weeks to see how far we can reach.
> >
> > Kip
> > --
> > Kipton Moravec AE5IB .- . ... -...
> >
> > "Always do right; this will gratify some people and astonish the rest."
> > --Mark Twain
> >
> >
> >
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>
> [Non-text portions of this message have been removed]
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> Yahoo! Groups Links
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>

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1828. Fwd:TAPR Spring PSR Journal Call for Papers!

Yahoo group: DAWG-HSMM
Date: 2010-03-16 18:27:28 UTC
From: Mark Thompson
Topic: 1828 Message: 1828

TAPR Spring PSR Journal Call for Papers!

-----Original Message-----
From: Stan Horzepa <stanzepa@...>
To: tapr-announce@...
Sent: Mon, Mar 15, 2010 5:51 pm
Subject: [tapr-announce] Spring PSR: Write For It!

The Spring issue of TAPR's quarterly newsletter, PSR, is in the works. If you would consider writing something for PSR,
the PSR editorial board would seriously consider publishing it. The deadline for the Spring issue is April 15, so you have one month to write something!

The Spring issue appears just before the Dayton Hamvention, so if you want to write something that ties in with the Hamvention, then even better!

Thank-you and 73,

Stan, WA1LOU
PSR Editor

[Non-text portions of this message have been removed]

1829. Call for Papers--2010 ARRL/TAPR Digital Communications Conference

Yahoo group: DAWG-HSMM
Date: 2010-03-16 23:36:37 UTC
From: Mark Thompson
Topic: 1829 Message: 1829

Call for Papers--2010 ARRL/TAPR Digital Communications Conference, Portland, OR
Posted by: "Ford, Steve, WB8IMY" sford@... wb8imy
Date: Mon Mar 15, 2010 12:38 pm ((PDT))

Technical papers are solicited for presentation at the 29th Annual ARRL and TAPR Digital Communications Conference to be held September 24-26, 2010 in Portland, Oregon. These papers will also be published in the Conference Proceedings (you do NOT need to attend the conference to have your paper included in the Proceedings). The submission deadline is July 31, 2010. Please send papers to:

Maty Weinberg
ARRL
225 Main St
Newington, CT 06111

or you can make your submission via e-mail to: maty@...

Papers will be published exactly as submitted and authors will retain all rights.

73 . . . Steve, WB8IMY
ARRL

[Non-text portions of this message have been removed]

1830. FCC Proposes to Eliminate Spread Spectrum APC Requirement, Reduce Spread Spectrum Power Limit; Cleans Up Portions of Part 97

Yahoo group: DAWG-HSMM
Date: 2010-03-19 16:06:45 UTC
From: Mark Thompson
Topic: 1830 Message: 1830

http://www.arrl.org/news/stories/2010/03/18/11396/?nc=1

FCC Proposes to Eliminate Spread Spectrum APC Requirement, Reduce Spread Spectrum Power Limit; Cleans Up Portions of Part 97
In response to a 2006 ARRL Petition http://www.arrl.org/announce/regulatory/SS-Rulemaking-Petition.pdf regarding spread spectrum issues, the FCC released a Notice of Proposed Rule Making(NPRM) on March 16 (WT Docket No 10-62), proposing to amend Part 97 to facilitate the use of spread spectrum communications technologies by eliminating the requirement that amateur stations use automatic power control (APC) to reduce transmitter power when the station transmits a spread spectrum (SS) emission and reducing the maximum transmitter power output when transmitting a SS emission. Through an Order attached to the NPRM, http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-10-38A1.pdf Commission also made "certain non-substantive revisions" to the Amateur Service rules.
Notice of Proposed Rule Making
Spread spectrum techniques are methods by which the information signal of a particular bandwidth is intentionally spread in the frequency domain. At any point of bandwidth the SS emission occupies, either the power spectral density of the transmitted signal is reduced to a comparatively low level or the duration of a transmission on any frequency in the frequency segment is very brief. Consequently, stations in the same area can transmit SS signals without causing harmful interference to or experiencing harmful interference from each other or a station transmitting a non-SS signal over the same spectrum segment.
Back in 1985, the FCC authorized Amateur Radio stations to transmit SS emissions with a maximum transmitter power limit of 100 W PEP. To emphasize the experimental nature of spread spectrum as well as some of the potential benefits associated with it, the Commission authorized such transmissions on a secondary basis to other amateur service communications. At that time, the Commission noted that "to reduce the likelihood that SS transmissions from an amateur station could be made for the purpose of obscuring the meaning of a message, the Commission permitted only frequency hopping and direct sequence spreading techniques." Fourteen years later, the FCC eliminated restrictions on spreading techniques "to allow amateur stations greater flexibility and permit them to use the SS techniques used in other communications services." The Commission also required stations transmitting SS communications with a transmitter power greater than 1 W to utilize APC to limit the transmitter power in accordance with a specific formula (permissible power is determined by the use of the ratio, measured at the receiver, of the received energy per user data bit [Eb] to the sum of the received power spectral densities of noise [No] and co-channel interference [Io]; average transmitter power over 1 W shall be automatically adjusted to maintain an Eb/[No + Io] ratio of no more than 23 dB at the intended receiver).
In 2006, the ARRL petitioned the FCC, http://www.arrl.org/announce/regulatory/SS-Rulemaking-Petition.pdf that the APC requirement be eliminated, asserting that the APC provision has proven to be "virtually impossible" as it requires the operators of the transmitting stations to determine the transmitter power received at distant receivers and that this requirement has proven to be " something of a barrier to SS experimentation." The League further contended that the APC

requirement could be eliminated without increasing the risk of harmful interference because:

* The station licensee or control operator of the station transmitting the SS emission would still be obligated under Section 97.313(a) of the Commission's Rules to use the minimum power necessary to conduct communications, and
* Under Section 97.311(b) of the Commission's Rules, SS communications are already secondary to other Amateur Service communications.

In the NPRM, the FCC agreed with the ARRL that the APC requirement "may be unnecessarily impeding Amateur Radio operators in advancing the radio art," but the Commission does not propose to simply eliminate the APC requirement. Noting that the purpose of the APC requirement is to limit interference to other stations, the FCC pointed out that commercial broadband Internet service providers operating in the 900 MHz and 2.4 GHz ISM bands argue that the APC requirement should be maintained in order to prevent interference to other users. They also referred to suggestions maintaining that if the APC requirement is eliminated, the FCC should lower the maximum power limit on amateur stations transmitting SS emissions so that interference is minimized.

Given these concerns, the FCC proposes to eliminate the APC requirement and reduce the maximum transmitter power output amateur stations may use when transmitting SS communications from 100 W to a peak of 10 W.

"We believe that this approach is consistent with both the ARRL's request that we eliminate a requirement that may be impossible to implement and the intent of the APC requirement to limit interference to other stations," the FCC stated in the NPRM. "We also believe that the proposed rule change would (1) encourage individuals who can contribute to the advancement of the radio art to more fully utilize SS technologies in experimentation, (2) balance the interests of all users in mixed-mode and mixed-service frequency bands until sharing protocols are sufficiently developed to avoid interference and (3) promote more efficient use of the radio spectrum currently allocated to the Amateur Service." The Commission is seeking comments on this proposal.

Order

In the Order, the FCC made amendments "to correct the Amateur Service rules or conform them to prior Commission decisions." These revisions will take effect once they are published in the Federal Register.

The FCC noted that when they authorized Novice class and Technician Plus class operators to transmit in certain portions of the 80, 40, 15 and 10 meter bands in 2006, they intended to limit those stations' power in those bands to 200 W PEP, "but the implementing amendment to Section 97.313(c) inadvertently applied that power limitation to all frequencies authorized to Novice and Technician Class licensees. We therefore correct Section 97.313(c) to clarify that the limitation applies only in those bands."

The Commission also revised Sections 97.301 and 97.303 related to the 40 and 60 meter and the 70 cm and 9 cm bands to conform to the Table of Frequency Allocations (Table), and to references within the relevant sections of the rules. They also revised the frequency sharing requirements in Section 97.303 "to limit the summary to those frequency bands that are allocated to the Amateur Service on a secondary basis, and to present the requirements more clearly."

In addition, the FCC moved transmitter power limit information from Section 97.303(s) to Section 97.313, the section concerning transmitter power standards. Section 97.103(c) was amended to delete the cross-reference to Section 0.314(x) that was removed in 1999. They also removed the entry "1260-1270 MHz" from Section 97.207(c) that lists the frequency bands authorized to amateur space stations "because footnote 5.282 to the Table limits the use of that segment to Earth station transmissions."

How to Make Comments on the NPRM

Pursuant to Sections 1.415 and 1.419 of the Commission's Rules, interested parties may file comments on the NPRM on or before 30 days after date of publication in the Federal Registerand reply comments on or before 45 days after date of publication in the Federal Register. Based on previous experience, the ARRL expects publication of the NPRM and Order in theFederal Register sometime in early spring. Instructions on how to file comments on the NPRM only are listed on pages 6-7 in the NPRMhttp://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-10-38A1.pdf.

[Non-text portions of this message have been removed]

1831. Re: NLOS on 33 cm

Yahoo group: DAWG-HSMM
Date: 2010-04-12 02:11:51 UTC
From: Steve
Topic: 1831 Message: 1831

I haven't done a ton of testing of the XR9. But the preliminary report is about a mile NLOS, using a 5 MHz channel, with a base station at 35 feet into a 6-dBd omni antenna and a magnet-mounted antenna on the car. Usable connectivity is a bit less than that.

Not exactly impressive, but I wanted to share that. I'm sure things will be more successful when I get around to sticking a yagi up in the air at a few locations.

For comparison:

With the AeroComm I reported solid mobile coverage for about 5 miles. And was had non-solid for out to about 7 miles.

To be expected as the data rate is substantially better with the XR9... so there is your trade off.

If you are looking for a NLOS solution, may I direct your attention to something for the 70cm band:

http://www.xagyl.com/store/product.php?productid=16450&cat=251&page=1

This was recently brought to my attention, and is Very Interesting. I am hoping to get in touch with XAGYL in the next few days to see what else I can learn.

XAGYL Communications, appears to be a Canadian Distributor of Ultra High-Speed, Long Range Wireless equipment. It looks like about a year ago they partnered with Doodle Labs, a privately held manufacturing company with headquarters in Singapore to design and manufacture a new line of long range Wireless Data Transceiver devices.

1832. Re: NLOS on 33 cm

Yahoo group: DAWG-HSMM
Date: 2010-04-14 13:40:05 UTC
From: jks19714
Topic: 1831 Message: 1832

FYI, I just sent them an email with some questions on that card. I will report back to the group with the response.

73,
john W3JKS/AAT3BF/AAM3EDE/AAA9SL

--- In ntms-hsmm@yahoogroups.com, Steve <kb9mwr@...> wrote:
>
> I haven't done a ton of testing of the XR9. But the preliminary report is
> about a mile NLOS, using a 5 MHz channel, with a base station at 35 feet into a 6-dBd omni antenna and a magnet-mounted antenna on the car. Usable connectivity is a bit less than that.
>
> Not exactly impressive, but I wanted to share that. I'm sure things will be more successful when I get around to sticking a yagi up in the air at a few locations.
>
> For comparison:
>
> With the AeroComm I reported solid mobile coverage for about 5 miles. And was had non-solid for out to about 7 miles.
>
> To be expected as the data rate is substantially better with the XR9... so there is your trade off.
>
> If you are looking for a NLOS solution, may I direct your attention to something for the 70cm band:
>
> http://www.xagyl.com/store/product.php?productid=16450&cat=251&page=1
>
> This was recently brought to my attention, and is Very Interesting. I am hoping to get in touch with XAGYL in the next few days to see what else I can learn.
>
> XAGYL Communications, appears to be a Canadian Distributor of Ultra High-Speed, Long Range Wireless equipment. It looks like about a year ago they partnered with Doodle Labs, a privately held manufacturing company with headquarters in Singapore to design and manufacture a new line of long range Wireless Data Transceiver devices.
>

1833. WRT54GL mobile power

Yahoo group: DAWG-HSMM
Date: 2010-04-14 16:26:27 UTC
From: Todd Caldwell
Topic: 1831 Message: 1833

Hello all,

I'm in the process of installing my ham gear in a new (to me) vehicle. I plan to include a WRT54GL in the equipment list, and was wondering if anyone here has experience running one directly from a vehicle 12 VDC power system ? Mine is one that uses 12 VDC power, but I'm a bit concerned about the variations in voltage in an automotive power situation.

Just wondering if this has been tried and if you added any filtering or regulation between the vehicle and the router.

Thanks,

Todd Caldwell
KB5ULN - Mesquite, TX

1834. Re: [ntms-hsmm] WRT54GL mobile power

Yahoo group: DAWG-HSMM
Date: 2010-04-14 17:04:41 UTC
From: Kipton Moravec
Topic: 1831 Message: 1834

Not a problem. It draws about 400 mA and has a switching power supply.
It will work from 7.5V to 18V.

On long >200 feet passive power over Ethernet runs I had to add an
external 10000 MFD capacitor, but you will not have that problem.

Kip

On Wed, 2010-04-14 at 10:26 -0600, Todd Caldwell wrote:
> Hello all,
>
> I'm in the process of installing my ham gear in a new (to me)
> vehicle. I plan to include a WRT54GL in the equipment list, and was
> wondering if anyone here has experience running one directly from a
> vehicle 12 VDC power system ? Mine is one that uses 12 VDC power, but
> I'm a bit concerned about the variations in voltage in an automotive
> power situation.
>
> Just wondering if this has been tried and if you added any filtering
> or regulation between the vehicle and the router.
>
> Thanks,
>
> Todd Caldwell
> KB5ULN - Mesquite, TX
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1835. Re: [ntms-hsmm] WRT54GL mobile power

Yahoo group: DAWG-HSMM
Date: 2010-04-14 17:50:07 UTC
From: Josh Smith
Topic: 1831 Message: 1835

Todd,
This is slightly OT from your original post but...I have often considered installing some sort of wireless access point in my vehicle but haven't pulled the trigger yet. What are you hoping to use this for?

Thanks,
Josh Smith
KD8HRX
email/jabber: juicewvu@...
phone: 304.237.9369(c)

On Wed, Apr 14, 2010 at 12:26 PM, Todd Caldwell <tmCaldwell@...>wrote:

>
>
> Hello all,
>
> I'm in the process of installing my ham gear in a new (to me)
> vehicle. I plan to include a WRT54GL in the equipment list, and was
> wondering if anyone here has experience running one directly from a
> vehicle 12 VDC power system ? Mine is one that uses 12 VDC power, but
> I'm a bit concerned about the variations in voltage in an automotive
> power situation.
>
> Just wondering if this has been tried and if you added any filtering
> or regulation between the vehicle and the router.
>
> Thanks,
>
> Todd Caldwell
> KB5ULN - Mesquite, TX
>
>

[Non-text portions of this message have been removed]

1836. Re: NLOS on 33 cm

Yahoo group: DAWG-HSMM
Date: 2010-04-14 17:53:29 UTC
From: kb9mwr
Topic: 1831 Message: 1836

I learned it's Atheros based with a frequency converter.

They also working on custom drivers that would allow better frequency management.

They are willing to work with hams. As until the drivers are developed they offered to custom program the center frequencies, but the channels will be 5MHz apart.

The initial goal is to have them centered at 422.5MHz and up at 5MHz intervals up to 447.5MHz.

With modified madwifi drivers, the sales guy says they would have better granularity, and we could pick the center frequency with 1MHz increments.

So this could easily fit into unused ATV channels on 70cm

Also worth mentioning is FCC-ID: SWX-M900
Ubiquiti's 900 MHz TDMA bullet like radio

1837. Re: [ntms-hsmm] WRT54GL mobile power

Yahoo group: DAWG-HSMM
Date: 2010-04-14 17:58:53 UTC
From: Todd Caldwell
Topic: 1831 Message: 1837

Hi Josh,

Eventually I hope to use the router for HSMM-MESH connectivity. However, we don't have much in the way of infrastructure here in Mesquite yet. So until then I plan to use the router to connect a couple of Zonet IP Cameras to the wireless LAN here at the house. A buddy and I travel to a number of local sci-fi conventions too. I hope to be able to use those same cameras to keep an eye on my truck from the hotel rooms while at the conventions.

A fellow ham also travels to some of the conventions, and there's been talk of setting up a mobile wireless video conference for the drives too.

So basically I'm presently doing it for practice and for geek points. :)

73's

Todd

Josh Smith wrote:
> Todd,
> This is slightly OT from your original post but...I have often considered
> installing some sort of wireless access point in my vehicle but haven't
> pulled the trigger yet. What are you hoping to use this for?
>
>
> Thanks,
> Josh Smith
> KD8HRX
> email/jabber: juicewvu@...
> phone: 304.237.9369(c)
>
>
>
>
> On Wed, Apr 14, 2010 at 12:26 PM, Todd Caldwell <tmCaldwell@...>wrote:
>
>
>> Hello all,
>>
>> I'm in the process of installing my ham gear in a new (to me)
>> vehicle. I plan to include a WRT54GL in the equipment list, and was
>> wondering if anyone here has experience running one directly from a
>> vehicle 12 VDC power system ? Mine is one that uses 12 VDC power, but
>> I'm a bit concerned about the variations in voltage in an automotive

>> power situation.
>>
>> Just wondering if this has been tried and if you added any filtering
>> or regulation between the vehicle and the router.
>>
>> Thanks,
>>
>> Todd Caldwell
>> KB5ULN - Mesquite, TX
>>
>>
>>

1838. RE: [ntms-hsmm] WRT54GL mobile power

Yahoo group: DAWG-HSMM
Date: 2010-04-14 18:16:41 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 1831 Message: 1838

Todd,

What are you going to use as the uplink from the mobile router to the server/network?

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Todd Caldwell
Sent: Wednesday, April 14, 2010 5:59 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] WRT54GL mobile power

Hi Josh,

Eventually I hope to use the router for HSMM-MESH connectivity. However, we don't have much in the way of infrastructure here in Mesquite yet. So until then I plan to use the router to connect a couple of Zonet IP Cameras to the wireless LAN here at the house. A buddy and I travel to a number of local sci-fi conventions too. I hope to be able to use those same cameras to keep an eye on my truck from the hotel rooms while at the conventions.

A fellow ham also travels to some of the conventions, and there's been talk of setting up a mobile wireless video conference for the drives too.

So basically I'm presently doing it for practice and for geek points. :)

73's

Todd

Josh Smith wrote:
> Todd,
> This is slightly OT from your original post but...I have often considered
> installing some sort of wireless access point in my vehicle but haven't
> pulled the trigger yet. What are you hoping to use this for?
>
>
> Thanks,
> Josh Smith

> KD8HRX
> email/jabber: juicewvu@gmail. <mailto:juicewvu%40gmail.com> com
> phone: 304.237.9369(c)
>
>
>
>
> On Wed, Apr 14, 2010 at 12:26 PM, Todd Caldwell <tmCaldwell@pobox.
<mailto:tmCaldwell%40pobox.com> com>wrote:
>
>
>> Hello all,
>>
>> I'm in the process of installing my ham gear in a new (to me)
>> vehicle. I plan to include a WRT54GL in the equipment list, and was
>> wondering if anyone here has experience running one directly from a
>> vehicle 12 VDC power system ? Mine is one that uses 12 VDC power, but
>> I'm a bit concerned about the variations in voltage in an automotive
>> power situation.
>>
>> Just wondering if this has been tried and if you added any filtering
>> or regulation between the vehicle and the router.
>>
>> Thanks,
>>
>> Todd Caldwell
>> KB5ULN - Mesquite, TX
>>
>>
>>

_____ Information from ESET Smart Security, version of virus signature
database 5029 (20100414) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature
database 5029 (20100414) _____

The message was checked by ESET Smart Security.

http://www.eset.com

[Non-text portions of this message have been removed]

1839. Re: [ntms-hsmm] WRT54GL mobile power

Yahoo group: DAWG-HSMM
Date: 2010-04-14 18:21:07 UTC
From: Josh Smith
Topic: 1831 Message: 1839

Todd,
Thanks for the info. It definitely seems like an interesting project. I know what you mean about the lack of any HSMM-MESH activity in your area. I have the same problem here in Morgantown.

Thanks,
Josh Smith
KD8HRX
email/jabber: juicewvu@...
phone: 304.237.9369(c)

On Wed, Apr 14, 2010 at 1:58 PM, Todd Caldwell <tmCaldwell@...> wrote:

>
>
> Hi Josh,
>
> Eventually I hope to use the router for HSMM-MESH connectivity.
> However, we don't have much in the way of infrastructure here in
> Mesquite yet. So until then I plan to use the router to connect a
> couple of Zonet IP Cameras to the wireless LAN here at the house. A
> buddy and I travel to a number of local sci-fi conventions too. I hope
> to be able to use those same cameras to keep an eye on my truck from the
> hotel rooms while at the conventions.
>
> A fellow ham also travels to some of the conventions, and there's
> been talk of setting up a mobile wireless video conference for the
> drives too.
>
> So basically I'm presently doing it for practice and for geek points. :)
>
> 73's
>
> Todd
>
>
> Josh Smith wrote:
> > Todd,
> > This is slightly OT from your original post but...I have often considered
> > installing some sort of wireless access point in my vehicle but haven't
> > pulled the trigger yet. What are you hoping to use this for?
> >
> >
> > Thanks,
> > Josh Smith
> > KD8HRX

> > email/jabber: juicewvu@gmail.com <juicewvu%40gmail.com>
> > phone: 304.237.9369(c)
> >
> >
> >
> >
> > On Wed, Apr 14, 2010 at 12:26 PM, Todd Caldwell <tmCaldwell@...<tmCaldwell%40pobox.com>
> >wrote:
> >
> >
> >> Hello all,
> >>
> >> I'm in the process of installing my ham gear in a new (to me)
> >> vehicle. I plan to include a WRT54GL in the equipment list, and was
> >> wondering if anyone here has experience running one directly from a
> >> vehicle 12 VDC power system ? Mine is one that uses 12 VDC power, but
> >> I'm a bit concerned about the variations in voltage in an automotive
> >> power situation.
> >>
> >> Just wondering if this has been tried and if you added any filtering
> >> or regulation between the vehicle and the router.
> >>
> >> Thanks,
> >>
> >> Todd Caldwell
> >> KB5ULN - Mesquite, TX
> >>
> >>
> >>
>
>
>

[Non-text portions of this message have been removed]

1840. Re: [ntms-hsmm] WRT54GL mobile power

Yahoo group: DAWG-HSMM
Date: 2010-04-14 18:31:21 UTC
From: Todd Caldwell
Topic: 1831 Message: 1840

Gordon,

I hope to be able to configure DD-WRT or Open-WRT as an access point and have it connect to the wireless router in the house. Just plain wifi there, no HSMM. The cameras can upload to a remote server with no additional help as far as I can tell. I have an offer from a ham buddy/networking guru to set me up with some server space on one of his servers, so I'll probably use that as a destination off site. The camera software can also record locally onto my hard drive. They have a motion sensing capability that I intend to use while they're in the security role.

Todd

J.Gordon Beattie, Jr., W2TTT wrote:
> Todd,
>
> What are you going to use as the uplink from the mobile router to the
> server/network?
>
>
>
> Thanks & 73,
>
> Gordon Beattie, W2TTT
>
> 201.314.6964
>
> -----
>
> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
> Of Todd Caldwell
> Sent: Wednesday, April 14, 2010 5:59 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: Re: [ntms-hsmm] WRT54GL mobile power
>
>
>
>
>
> Hi Josh,
>
> Eventually I hope to use the router for HSMM-MESH connectivity.
> However, we don't have much in the way of infrastructure here in
> Mesquite yet. So until then I plan to use the router to connect a
> couple of Zonet IP Cameras to the wireless LAN here at the house. A

> buddy and I travel to a number of local sci-fi conventions too. I hope
> to be able to use those same cameras to keep an eye on my truck from the
> hotel rooms while at the conventions.
>
> A fellow ham also travels to some of the conventions, and there's
> been talk of setting up a mobile wireless video conference for the
> drives too.
>
> So basically I'm presently doing it for practice and for geek points. :)
>
> 73's
>
> Todd
>
>

1841. Re: NLOS on 33 cm

Yahoo group: DAWG-HSMM
Date: 2010-04-16 13:20:34 UTC
From: jks19714
Topic: 1831 Message: 1841

That is excellent news. It would be REALLY NICE if they could retrofit an amplifier keying circuit into the design so that it would be easy to operate a small external amplifier. Same thing goes for the XR3 product, which would be great for hams on the little-used 9 cm band.

73,
john W3JKS/AAT3BF/AAM3EDE/AAA9SL

--- In ntms-hsmm@yahoogroups.com, "kb9mwr" <kb9mwr@...> wrote:
>
> I learned it's Atheros based with a frequency converter.
>
> They also working on custom drivers that would allow better frequency management.
>
> They are willing to work with hams. As until the drivers are developed they offered to custom program the center frequencies, but the channels will be 5MHz apart.
>
> The initial goal is to have them centered at 422.5MHz and up at 5MHz intervals up to 447.5MHz.
>
> With modified madwifi drivers, the sales guy says they would have better granularity, and we could pick the center frequency with 1MHz increments.
>
> So this could easily fit into unused ATV channels on 70cm
>
> Also worth mentioning is FCC-ID: SWX-M900
> Ubiquiti's 900 MHz TDMA bullet like radio
>

1842. Call for Papers--2010 ARRL/TAPR Digital Communications Conference

Yahoo group: DAWG-HSMM
Date: 2010-04-18 06:37:39 UTC
From: Mark Thompson
Topic: 1829 Message: 1842

Call for Papers--2010 ARRL/TAPR Digital Communications Conference
Posted by: "Ford, Steve, WB8IMY" sford@... wb8imy
Date: Thu Apr 15, 2010 11:12 am ((PDT))

Technical papers are solicited for presentation at the 29th Annual ARRL and TAPR Digital Communications Conference to be held September 24-26, 2010 near Portland, Oregon. These papers will also be published in the Conference Proceedings (you do NOT need to attend the conference to have your paper included in the Proceedings). The submission deadline is July 31, 2010. Please send papers to:

Maty Weinberg
ARRL
225 Main St
Newington, CT 06111

or you can make your submission via e-mail to: maty@...

Papers will be published exactly as submitted and authors will retain all rights.

73 . . . Steve, WB8IMY
ARRL

[Non-text portions of this message have been removed]

1843. Securing my HSMM router

Yahoo group: DAWG-HSMM
Date: 2010-04-18 22:10:00 UTC
From: yajoo_1
Topic: 1843 Message: 1843

Several of us here in Nacogdoches are starting to experiment with HSMM-MESH. I have flashed my Linksys WRT54GL version 1.1 with the hsmm-mesh-0.3.2-wrt54g.bin and then with the hsmm-mesh-0.3.2-brcm.trx file. It worked and the router is working, I can log in and have looked at the various option for MESH Node, Mesh Access Point, Router etc. The settings in the configuration pages are pretty sparse and many are defaulted and unchangable. I can see the router wirelessly with a laptop and an iPhone

I do not see how to secure the router except the Administration password.
How can I prevent war-drivers and curious passers-by from connecting to my router?

Thanks,

KD5FEE

1844. Re: NLOS on 33 cm

Yahoo group: DAWG-HSMM
Date: 2010-04-19 05:41:58 UTC
From: kb9mwr
Topic: 1831 Message: 1844

I think We need to make another call for BDA construction articles.

--- In ntms-hsmm@yahoogroups.com, "jks19714" <aat3bf@...> wrote:
>
> That is excellent news. It would be REALLY NICE if they could retrofit an amplifier keying circuit into the design so that it would be easy to operate a small external amplifier. Same thing goes for the XR3 product, which would be great for hams on the little-used 9 cm band.
>
> 73,
> john W3JKS/AAT3BF/AAM3EDE/AAA9SL

1845. Re: Securing my HSMM router

Yahoo group: DAWG-HSMM
Date: 2010-04-19 15:31:45 UTC
From: h0chus_p0ckus
Topic: 1843 Message: 1845

> I do not see how to secure the router except the Administration password.

There's not much you can do. The FCC will expressly allow you to use WEP, IF the password has been previously mailed to the FCC and placed on record so it is "publicly" available and thus not "obscured" from the public. That issue was resolved pre-Katrina with them, confirm it with the ARRL and FCC if you need to.

You should also be able to hide the SSID and to restrict the MAC addresses that are allowed to access it. Hiding the SSID won't stop hackers; WEP won't slow them down more than 5 minutes; and MAC addresses can be impersonated. And, will mean legitimate users have to pre-register with you in order to get in.

That's about it, if you are using it for ham radio.

If the use is totally non-ham, then you move to WPA2 authentication, which is reasonably secure. You might ask the FCC if they'd allow you to use that instead of WEP, which would certainly be logical. I just haven't heard any formal opinion from them on that yet.

--Red

1846. RE: [ntms-hsmm] Re: Securing my HSMM router

Yahoo group: DAWG-HSMM
Date: 2010-04-19 19:04:21 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 1843 Message: 1846

Red et al,

If you can mail them a WEP password, then there is no reason why you
couldn't mail them a WPA/TKIP passphrase along with the SSID.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of h0chus_p0ckus
Sent: Monday, April 19, 2010 3:32 PM
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re: Securing my HSMM router

> I do not see how to secure the router except the Administration password.

There's not much you can do. The FCC will expressly allow you to use WEP, IF
the password has been previously mailed to the FCC and placed on record so
it is "publicly" available and thus not "obscured" from the public. That
issue was resolved pre-Katrina with them, confirm it with the ARRL and FCC
if you need to.

You should also be able to hide the SSID and to restrict the MAC addresses
that are allowed to access it. Hiding the SSID won't stop hackers; WEP won't
slow them down more than 5 minutes; and MAC addresses can be impersonated.
And, will mean legitimate users have to pre-register with you in order to
get in.

That's about it, if you are using it for ham radio.

If the use is totally non-ham, then you move to WPA2 authentication, which
is reasonably secure. You might ask the FCC if they'd allow you to use that
instead of WEP, which would certainly be logical. I just haven't heard any
formal opinion from them on that yet.

--Red

_____ Information from ESET Smart Security, version of virus signature
database 5040 (20100419) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 5041 (20100419) _____

The message was checked by ESET Smart Security.

http://www.eset.com

[Non-text portions of this message have been removed]

1847. RE: [ntms-hsmm] Re: Securing my HSMM router

Yahoo group: DAWG-HSMM
Date: 2010-04-19 19:28:09 UTC
From: Kipton Moravec
Topic: 1843 Message: 1847

On Mon, 2010-04-19 at 19:04 +0000, J.Gordon Beattie, Jr., W2TTT wrote:
> Red et al,
>
> If you can mail them a WEP password, then there is no reason why you
> couldn't mail them a WPA/TKIP passphrase along with the SSID.
>
>
>
> Thanks & 73,
>
> Gordon Beattie, W2TTT
>
> 201.314.6964
>

WPA/TKIP will not work with HSMM-MESH. Only WEP works with an Ad-hoc network.

And you only have to have the password in your logbook. You do not have to pre-mail it to them.

The next version of HSMM-MESH software will make it a little (not a lot) harder for someone to break into it.

Kip

> _____
>
> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
> Of h0chus_p0ckus
> Sent: Monday, April 19, 2010 3:32 PM
> To: ntms-hsmm@yahoogroups.com
> Subject: [ntms-hsmm] Re: Securing my HSMM router
>
>
>
>
>
> > I do not see how to secure the router except the Administration password.
>
> There's not much you can do. The FCC will expressly allow you to use WEP, IF
> the password has been previously mailed to the FCC and placed on record so
> it is "publicly" available and thus not "obscured" from the public. That
> issue was resolved pre-Katrina with them, confirm it with the ARRL and FCC
> if you need to.
>

> You should also be able to hide the SSID and to restrict the MAC addresses
> that are allowed to access it. Hiding the SSID won't stop hackers; WEP won't
> slow them down more than 5 minutes; and MAC addresses can be impersonated.
> And, will mean legitimate users have to pre-register with you in order to
> get in.
>
> That's about it, if you are using it for ham radio.
>
> If the use is totally non-ham, then you move to WPA2 authentication, which
> is reasonably secure. You might ask the FCC if they'd allow you to use that
> instead of WEP, which would certainly be logical. I just haven't heard any
> formal opinion from them on that yet.
>
> --Red
>
>
>
>
> _____ Information from ESET Smart Security, version of virus signature
> database 5040 (20100419) _____
>
>
> The message was checked by ESET Smart Security.
>
>
> http://www.eset.com
>
>
>
> _____ Information from ESET Smart Security, version of virus signature
> database 5041 (20100419) _____
>
> The message was checked by ESET Smart Security.
>
> http://www.eset.com
>
>
>
> [Non-text portions of this message have been removed]
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> ------------------------------------
>
> Yahoo! Groups Links
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>
--

Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1848. Re: Securing my HSMM router

Yahoo group: DAWG-HSMM
Date: 2010-04-20 01:44:17 UTC
From: yajoo_1
Topic: 1843 Message: 1848

Thank you for your answers. I cannot find anywhere in the router configuration pages, using the hsmm-mess-032 flash to start a WEP or MAC filters or anything like that. When I log on the router I get a Status page, a Basic Setup page, a Port Forwarding and Static DHCP page, and an Administration page, none of those seem to afford me any particular method of security.

Did I miss something in the instructions? There are virtually no configurable settings on any of the setup/configuration pages I can find on the router.

Thanks in advance,

KD5FEE

>
> The next version of HSMM-MESH software will make it a little (not a lot)
> harder for someone to break into it.
>
> Kip
>
>
>
> > _____
> >
> > From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
> > Of h0chus_p0ckus
> > Sent: Monday, April 19, 2010 3:32 PM
> > To: ntms-hsmm@yahoogroups.com
> > Subject: [ntms-hsmm] Re: Securing my HSMM router
> >
> >
> >
> >
> >
> > > I do not see how to secure the router except the Administration password.
> >
> > There's not much you can do. The FCC will expressly allow you to use WEP, IF
> > the password has been previously mailed to the FCC and placed on record so
> > it is "publicly" available and thus not "obscured" from the public. That
> > issue was resolved pre-Katrina with them, confirm it with the ARRL and FCC
> > if you need to.
> >
> > You should also be able to hide the SSID and to restrict the MAC addresses
> > that are allowed to access it. Hiding the SSID won't stop hackers; WEP won't
> > slow them down more than 5 minutes; and MAC addresses can be impersonated.
> > And, will mean legitimate users have to pre-register with you in order to
> > get in.

> >
> > That's about it, if you are using it for ham radio.
> >
> > If the use is totally non-ham, then you move to WPA2 authentication, which
> > is reasonably secure. You might ask the FCC if they'd allow you to use that
> > instead of WEP, which would certainly be logical. I just haven't heard any
> > formal opinion from them on that yet.
> >
> > --Red
> >
> >
> >
> >
> > _____ Information from ESET Smart Security, version of virus signature
> > database 5040 (20100419) _____
> >
> >
> > The message was checked by ESET Smart Security.
> >
> >
> > http://www.eset.com
> >
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> >
> > _____ Information from ESET Smart Security, version of virus signature
> > database 5041 (20100419) _____
> >
> > The message was checked by ESET Smart Security.
> >
> > http://www.eset.com
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> >
> > [Non-text portions of this message have been removed]
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> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
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> >
> --
> Kipton Moravec AE5IB .- . ... -...
>
> "Always do right; this will gratify some people and astonish the rest."
> --Mark Twain
>

1849. Re: [ntms-hsmm] Re: Securing my HSMM router

Yahoo group: DAWG-HSMM
Date: 2010-04-20 02:55:41 UTC
From: Rusty Haddock
Topic: 1843 Message: 1849

yajoo_1 wrote:

>Thank you for your answers. I cannot find anywhere in the router
>configuration pages, using the hsmm-mess-032 flash to start a WEP or
>MAC filters or anything like that. When I log on the router I get a
>Status page, a Basic Setup page, a Port Forwarding and Static DHCP
>page, and an Administration page, none of those seem to afford me
>any particular method of security.

Because it's not there. Encryption has to be done manually. Ssh into
your node as root and 'cd /etc/config.mesh'. At the end of the file
'wireless' at these lines, indented appropriately:

```
option encryption wep
option key 0123456789ABCDEF0123456789
```

Replace the key above with your own 26-hexdigit code.

Save the file, run 'node-setup mesh', and reboot.

>Did I miss something in the instructions? There are virtually no
>configurable settings on any of the setup/configuration pages I can
>find on the router.

It's that way to keep it simple. And it takes time to build up
webpages/perl scripts for everything but if everything's configurable
sooner or later nodes stop talking to each other. You'd be surprised!
Talk to the Kipster about having to reconfigure nodes in a hurry.

What more do you NEED to configure that's not in the Setup pages? :-)

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1850. Re: Securing my HSMM router

Yahoo group: DAWG-HSMM
Date: 2010-04-22 01:46:36 UTC
From: yajoo_1
Topic: 1843 Message: 1850

Ahhhh, yes, thank you, the piece of knowledge I was missing! That'll get me started...

rmj

--- In ntms-hsmm@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> yajoo_1 wrote:
>
> >Thank you for your answers. I cannot find anywhere in the router
> >configuration pages, using the hsmm-mess-032 flash to start a WEP or
> >MAC filters or anything like that. When I log on the router I get a
> >Status page, a Basic Setup page, a Port Forwarding and Static DHCP
> >page, and an Administration page, none of those seem to afford me
> >any particular method of security.
>
> Because it's not there. Encryption has to be done manually. Ssh into
> your node as root and 'cd /etc/config.mesh'. At the end of the file
> 'wireless' at these lines, indented appropriately:
>
> option encryption wep
> option key 0123456789ABCDEF0123456789
>
> Replace the key above with your own 26-hexdigit code.
>
> Save the file, run 'node-setup mesh', and reboot.
>
> >Did I miss something in the instructions? There are virtually no
> >configurable settings on any of the setup/configuration pages I can
> >find on the router.
>
> It's that way to keep it simple. And it takes time to build up
> webpages/perl scripts for everything but if everything's configurable
> sooner or later nodes stop talking to each other. You'd be surprised!
> Talk to the Kipster about having to reconfigure nodes in a hurry.
>
> What more do you NEED to configure that's not in the Setup pages? :-)
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>

1851. Mounting Bracket for WRT54G

Yahoo group: DAWG-HSMM
Date: 2010-04-26 23:24:32 UTC
From: k8cop
Topic: 1851 Message: 1851

I am trying to locate a mounting bracket for a 54G unit. Unable to find out where to buy one at. It snaps onto the bottom of the router. The plastic mounting plate mounts on the wall.

Thanks,

Jim, K8COP
Twin Lake, MI.

1852. Re: [ntms-hsmm] Mounting Bracket for WRT54G

Yahoo group: DAWG-HSMM
Date: 2010-04-27 02:00:32 UTC
From: Kipton Moravec
Topic: 1851 Message: 1852

On Mon, 2010-04-26 at 23:24 +0000, k8cop wrote:
> I am trying to locate a mounting bracket for a 54G unit. Unable to find out where to buy one at. It snaps onto the bottom of the router. The plastic mounting plate mounts on the wall.
>

I have seen them but I do not know where they came from.

We tend to use Velcro. It makes it really easy to put in the box and
remove or adjust.

> Thanks,
>
> Jim, K8COP
> Twin Lake, MI.
>
>

Kip
--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1853. Re: [ntms-hsmm] Mounting Bracket for WRT54G

Yahoo group: DAWG-HSMM
Date: 2010-04-27 02:36:47 UTC
From: Will Wright
Topic: 1851 Message: 1853

You can find then on the linksys website.

Kipton Moravec wrote:
>
>
>
> On Mon, 2010-04-26 at 23:24 +0000, k8cop wrote:
> > I am trying to locate a mounting bracket for a 54G unit. Unable to
> find out where to buy one at. It snaps onto the bottom of the router.
> The plastic mounting plate mounts on the wall.
> >
>
> I have seen them but I do not know where they came from.
>
> We tend to use Velcro. It makes it really easy to put in the box and
> remove or adjust.
>
> > Thanks,
> >
> > Jim, K8COP
> > Twin Lake, MI.
> >
> >
>
> Kip
> --
> Kipton Moravec AE5IB .- . ... -...
>
> "Always do right; this will gratify some people and astonish the rest."
> --Mark Twain
>
>

1854. Re: [ntms-hsmm] Mounting Bracket for WRT54G

Yahoo group: DAWG-HSMM
Date: 2010-04-27 04:33:37 UTC
From: jbeadles@pobox.com
Topic: 1851 Message: 1854

On 26 Apr 2010 at 21:00, Kipton Moravec wrote:

>
>
> On Mon, 2010-04-26 at 23:24 +0000, k8cop wrote:
> > I am trying to locate a mounting bracket for a 54G unit. Unable to
> > find out where to buy one at. It snaps onto the bottom of the
> > router. The plastic mounting plate mounts on the wall.
> >
>
> I have seen them but I do not know where they came from.
>
> We tend to use Velcro. It makes it really easy to put in the box and
> remove or adjust.
>
> > Thanks,
> >
> > Jim, K8COP
> > Twin Lake, MI.

In the DFW area, I got some from Altex Electronics. They do mail order.
Other than that, eBay.

1855. TAPR Digital Activities at Dayton Hamvention, May 15-16, 2010

Yahoo group: DAWG-HSMM
Date: 2010-04-29 22:26:15 UTC
From: Mark Thompson
Topic: 1855 Message: 1855

-----Original Message-----
From: Stan Horzepa <stanzepa@...>
To: tapr-announce@...
Sent: Mon, Apr 26, 2010 7:23 pm
Subject: [tapr-announce] TAPR at the Dayton Hamvention (May 15-16, 2010)

Dayton Hamvention is the biggest gathering of ham radio operators on the planet and as usual, TAPR has a full slate on tap for the Hamvention weekend (May 14-16, 2010).

TAPR Booths:

Booths 455 through 458 in the Ball Arena of the Hara complex is where TAPR presents the latest advances in the state of the ham radio arts.

TAPR Digital Forum:

TAPR Digital Forum runs from 9:15 to 11:15 AM on Friday in Room 1 of the Hara Arena with the following schedule of presentations, moderated by Mark Thompson, WB9QZB:

9:15 – TAPR Update by Steve Bible, N7HPR, and Scotty Cowling, WA2DFI

9:30 – WL2K Network and its RF Portals by Rick Muething, KN6KB, and Vic Poor, W5SSM

10:00 – TAPR Project Design for Manufacturing, by Scotty Cowling, WA2DFI

10:30 – Putting HPSDR on the Internet, by John Melton, G0ORX/N6LYT

11:00 – Wrap-up

TAPR-AMSAT Banquet:

Friday evening, TAPR joins AMSAT for their fourth annual joint banquet at the Kohler Presidental Banquet Center, Kettering, OH (just south of Dayton). Dr. Bob McGwier, N4HY, will be the after dinner speaker.

Doors open at 6:30 PM and a cash bar will be available. A buffet dinner begins at 7:15 and includes Salmon with Newberg Sauce, Marinated Roasted Garlic Rosemary Chicken Breast in Lemon Butter Sauce, Marinated Pork Loin, Scalloped Potatoes with Parsley, Normandy Blend Green Beans, Fresh Fruit, Green Salad, Pie, Iced Tea, Hot Tea and Coffee.

Make reservations for the banquet online at the AMSAT Store <http://www.amsat-na.com/store/item.php?id=100158> or contact Martha at the AMSAT office from 10 AM to 6 PM EST/EDT at 301-589-6062 or toll free at 888-322-6728. You can pick up your reserved tickets at

the AMSAT booth on Friday or at the door.

---
tapr-announce mailing list

NOTE: This list includes all addresses currently subscribed to any TAPR mailing list. Please don't try to manually unsubscribe from this list; it won't work. If you unsubscribe from all other TAPR mailing lists, you will automatically be unsubscribed from this one.

[Non-text portions of this message have been removed]

1857. Advanced Digital Infrastructure Techniques using D-STAR High-Speed Data by NY9D

Yahoo group: DAWG-HSMM
Date: 2010-05-04 06:56:45 UTC
From: Mark Thompson
Topic: 1857 Message: 1857

Advanced Amateur Radio Digital Infrastructure Techniques using D-STAR High-Speed Data

by NY9D

published in TAPR PSR Journal Spring 2010, pages 8 - 11

available at: www.tapr.org/psr/psr111.pdf

[Non-text portions of this message have been removed]

1858. Feed line options

Yahoo group: DAWG-HSMM
Date: 2010-05-07 00:34:28 UTC
From: kc5sii
Topic: 1858 Message: 1858

What are people using for feed-line? We want to build some nodes but ended up with LMR400. Not practical for a 6-12 inch run. Also what RTNC connectors work best with whatever feed-line?

73,
Dave, KC5SII

1859. Re: [ntms-hsmm] Feed line options

Yahoo group: DAWG-HSMM
Date: 2010-05-07 01:02:35 UTC
From: Glenn Currie
Topic: 1858 Message: 1859

We usually put the WRT54G into an enclosure and run a 12" - 18" "pig tail" cable from the back of the router, to a female bulkhead N connector mounted to the enclosure.

From there we often use LMR-400 with N connectors to get to the antenna. The pig tail cable has the needed connectors. I believe they use LMR 100 for these short cables. (See fab-corp.com mentioned below)

The bulkhead N connector mounted to the enclosure provides a solid mount that can deal with the stiff LMR-400 jumpers to the antennas.

The "pig tail" adapter cables are available from several sources. I get mine from www.fab-corp.com.

-Glenn

--- On Thu, 5/6/10, kc5sii <kc5sii@...> wrote:

From: kc5sii <kc5sii@...>
Subject: [ntms-hsmm] Feed line options
To: ntms-hsmm@yahoogroups.com
Date: Thursday, May 6, 2010, 7:34 PM

What are people using for feed-line? We want to build some nodes but ended up with LMR400. Not practical for a 6-12 inch run. Also what RTNC connectors work best with whatever feed-line?

73,

Dave, KC5SII

[Non-text portions of this message have been removed]

1860. Re: Feed line options

Yahoo group: DAWG-HSMM
Date: 2010-05-08 13:58:53 UTC
From: kb9mwr
Topic: 1858 Message: 1860

I usually make my own pig tails. Most of the ones I have bought were made from LMR-195. Some time back I picked up 50 feet of LMR-195 for that purpose.

It has the same diameters specs as RG-58. So in that regard you can use normal connectors.

1861. Re: [ntms-hsmm] Re: Feed line options

Yahoo group: DAWG-HSMM
Date: 2010-05-08 18:59:55 UTC
From: Glenn Currie
Topic: 1858 Message: 1861

Sounds good. The small diameter coax is a challenge to work with,
and requires, yet another collection of connectors to keep in stock.

-Glenn

--- On Sat, 5/8/10, kb9mwr <kb9mwr@...> wrote:

From: kb9mwr <kb9mwr@...>
Subject: [ntms-hsmm] Re: Feed line options
To: ntms-hsmm@yahoogroups.com
Date: Saturday, May 8, 2010, 8:58 AM

I usually make my own pig tails. Most of the ones I have bought were made from LMR-195.
Some time back I picked up 50 feet of LMR-195 for that purpose.

It has the same diameters specs as RG-58. So in that regard you can use normal connectors.

[Non-text portions of this message have been removed]

1862. HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-12 13:20:58 UTC
From: kd5ktb@swbell.net
Topic: 1862 Message: 1862

I would like opinions on this. We are trying to find and negotiate space on top of a building in our area and another HAM who already has a repeater at one particular site was asked to help. He presented the following to the building manager and then declined to help us negotiate access.
"HSMM-MESH may be near the frequency that their wireless networks operate, at that point the building manager asked me not to do anything that might even remotely be blamed for interference"
So, how do we approach this concern with potential sites?
Thanks, Tim KD5KTB

1863. Re: [ntms-hsmm] HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-12 13:53:21 UTC
From: Patrick Soileau ND5C
Topic: 1862 Message: 1863

Tim,

Without knowing anything else about the situation, my first reaction is that the ham in question who already has a repeater setup on the site doesn't want anyone messing up his "honey hole".

While what he said was absolutely the truth, I can't help but believe that the manner in which it was stated was such that it would lead a supposedly non-technical building manager to believe that this new-fangled thing would not be a passive resident on the roof as is his current repeater.

For what it's worth, that building manager is tainted... by misleading info... and he's made up his mind. He's known this other guy, who assumedly has a track record for not causing trouble. He believes the other ham due to his past experiences and is not inclined to give you (the "new guy") a break because the guy he's trusted has said that you *might* be a troublemaker.

Write it off and find another building.

If you want to see just how petty and childish repeater owners/trustees can act, just look at some of the politics and foolishness that takes place in the Texas VHF-FM Society. 'nuff said. :)

73,

Pat ND5C

From: kd5ktb@... <kd5ktb@...>
Subject: [ntms-hsmm] HSMM-MESH Interference
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, May 12, 2010, 8:20 AM

I would like opinions on this.
We are trying to find and negotiate space on top of a building in our area and another HAM who already has a repeater at one particular site was asked to help. He presented the following to the building manager and then declined to help us negotiate access.

"HSMM-MESH may be near the frequency that their wireless networks operate, at that point the building manager asked me not to do anything that might even remotely be blamed for interference"

So, how do we approach this concern with potential sites?

Thanks, Tim KD5KTB

[Non-text portions of this message have been removed]

1864. Re: HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-12 15:33:26 UTC
From: kd5ktb@swbell.net
Topic: 1862 Message: 1864

"Write it off and find another building" Yes, already going down that path, but I am looking for information on how others may have approached building managers and building IT managers who will have these same concerns and questions. I agree, in this case, we were not even allowed to address any concerns. So, I plan to not allow that to occur again. How have others addressed these interference concerns?
Thanks,Tim

--- In ntms-hsmm@yahoogroups.com, Patrick Soileau ND5C <patrick@...> wrote:
>
>
> Tim,
>
> Without knowing anything else about the situation, my first reaction
> is that the ham in question who already has a repeater setup on the
> site doesn't want anyone messing up his "honey hole".
>
> While what he said was absolutely the truth, I can't help but believe
> that the manner in which it was stated was such that it would lead
> a supposedly non-technical building manager to believe that this
> new-fangled thing would not be a passive resident on the roof as is
> his current repeater.
>
> For what it's worth, that building manager is tainted... by misleading
> info... and he's made up his mind. He's known this other guy, who
> assumedly has a track record for not causing trouble. He believes the
> other ham due to his past experiences and is not inclined to give you
> (the "new guy") a break because the guy he's trusted has said that
> you *might* be a troublemaker.
>
> Write it off and find another building.
>
> If you want to see just how petty and childish repeater owners/trustees
> can act, just look at some of the politics and foolishness that takes
> place in the Texas VHF-FM Society.   'nuff said.   :)
>
> 73,
>
> Pat ND5C
>
>
>
>
>
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>

>
> From: kd5ktb@... <kd5ktb@...>
> Subject: [ntms-hsmm] HSMM-MESH Interference
> To: ntms-hsmm@yahoogroups.com
> Date: Wednesday, May 12, 2010, 8:20 AM
>
>
>
>
>
>
> I would like opinions on this.
> We are trying to find and negotiate space on top of a building in our area and another HAM who already has a repeater at one particular site was asked to help. He presented the following to the building manager and then declined to help us negotiate access.
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> "HSMM-MESH may be near the frequency that their wireless networks operate, at that point the building manager asked me not to do anything that might even remotely be blamed for interference"
>
> So, how do we approach this concern with potential sites?
>
> Thanks, Tim KD5KTB
>
>
>
> [Non-text portions of this message have been removed]
>

1865. Re: [ntms-hsmm] Re: HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-12 15:48:13 UTC
From: Bob Scanferla
Topic: 1862 Message: 1865

I may be a little naive here but I assume you are still talking about RF in the WIFI band and relatively low power levels?

If that is the case wouldn't part of the argument be that the existing building is probably already full of WIFI AP's and that one more is really not going to interfere with the existing services which I assume are probably WIreless Mobile Carriers.

Further, if there was going to be interference I would expect that the HAM repeater belching out tens of Watts of power may be a better candidate for overloading RX front ends than a WIFI AP?

maybe I am confused.....I have not been following these threads that closely lately :)

73
Bob

From: "kd5ktb@..." <kd5ktb@...>
To: ntms-hsmm@yahoogroups.com
Sent: Wed, May 12, 2010 11:33:26 AM
Subject: [ntms-hsmm] Re: HSMM-MESH Interference

"Write it off and find another building" Yes, already going down that path, but I am looking for information on how others may have approached building managers and building IT managers who will have these same concerns and questions. I agree, in this case, we were not even allowed to address any concerns. So, I plan to not allow that to occur again. How have others addressed these interference concerns?
Thanks,Tim

--- In ntms-hsmm@yahoogrou ps.com, Patrick Soileau ND5C <patrick@... > wrote:
>
>
> Tim,
>
> Without knowing anything else about the situation, my first reaction
> is that the ham in question who already has a repeater setup on the
> site doesn't want anyone messing up his "honey hole".
>
> While what he said was absolutely the truth, I can't help but believe
> that the manner in which it was stated was such that it would lead
> a supposedly non-technical building manager to believe that this
> new-fangled thing would not be a passive resident on the roof as is
> his current repeater.
>
> For what it's worth, that building manager is tainted... by misleading
> info... and he's made up his mind. He's known this other guy, who
> assumedly has a track record for not causing trouble. He believes the

> other ham due to his past experiences and is not inclined to give you
> (the "new guy") a break because the guy he's trusted has said that
> you *might* be a troublemaker.
>
> Write it off and find another building.
>
> If you want to see just how petty and childish repeater owners/trustees
> can act, just look at some of the politics and foolishness that takes
> place in the Texas VHF-FM Society. 'nuff said. :)
>
> 73,
>
> Pat ND5C
>
>
>
>
>
>
>
>
> From: kd5ktb@... <kd5ktb@...>
> Subject: [ntms-hsmm] HSMM-MESH Interference
> To: ntms-hsmm@yahoogrou ps.com
> Date: Wednesday, May 12, 2010, 8:20 AM
>
>
>
>
>
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> I would like opinions on this.
> We are trying to find and negotiate space on top of a building in our area and another HAM who already has a repeater at one particular site was asked to help. He presented the following to the building manager and then declined to help us negotiate access.
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> "HSMM-MESH may be near the frequency that their wireless networks operate, at that point the building manager asked me not to do anything that might even remotely be blamed for interference"
>
> So, how do we approach this concern with potential sites?
>
> Thanks, Tim KD5KTB
>
>
>
> [Non-text portions of this message have been removed]
>

[Non-text portions of this message have been removed]

1866. Re: HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-12 17:02:24 UTC
From: Timothy
Topic: 1862 Message: 1866

I'm relatively new to HSMM, so I'm going to apologize in advance for any ignorance....

I'm assuming that you were looking to run in the 2.4 GHz spectrum? If so how much power? The building owner is probably worried about you clobbering the Wireless LAN's in building on 2.4GHz. Being a WLAN Engineer I know I would be too.

It's probably not any more "sinister" than that. I think some folks are reading way too much into this.

How much power do folks typically run on 2.4 GHz?

73s,
Tim
W2TO

--- In ntms-hsmm@yahoogroups.com, "kd5ktb@..." <kd5ktb@...> wrote:
>
> I would like opinions on this. We are trying to find and negotiate space on top of a building in our area and another HAM who already has a repeater at one particular site was asked to help. He presented the following to the building manager and then declined to help us negotiate access.
> "HSMM-MESH may be near the frequency that their wireless networks operate, at that point the building manager asked me not to do anything that might even remotely be blamed for interference"
> So, how do we approach this concern with potential sites?
> Thanks, Tim KD5KTB
>

1867. Re: [ntms-hsmm] Re: HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-12 17:17:39 UTC
From: David McAnally
Topic: 1862 Message: 1867

Also the ERP and radiation pattern from the top of the building should be understood and explained, not to mention the design and operating characteristics of 802.11. I would expect wireless routers inside and around the building pose a greater impact to each other, than one on top of the building. I suspect microwave ovens and 2.4GHz phones inside the building cause more interference. You probably won't convince that building manager or other ham of that. But might be good to have that information in presentations for other potential sites to counter the interference question if raised.

David McAnally, WD5M

--- In ntms-hsmm@yahoogroups.com, "kd5ktb@..." <kd5ktb@...> wrote:
> >
> > I would like opinions on this. We are trying to find and negotiate space
> on top of a building in our area and another HAM who already has a repeater
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> building manager and then declined to help us negotiate access.
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> operate, at that point the building manager asked me not to do anything that
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> > Thanks, Tim KD5KTB
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[Non-text portions of this message have been removed]

1868. Re: HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-12 17:45:41 UTC
From: kd5ktb@swbell.net
Topic: 1862 Message: 1868

Hi Tim,
With HSMM we can add power, but choose not to for various reasons. Primarily because we do not need to. So, all we use is a standard WRT54G wireless router just like they probably have inside the building in several locations. We do not add any power to the device. I think the part 15 wifi power is 1.0w. Max EIRP is up to 4w. Point to point is maybe 6w. But for what we want to do, we would be at the lower power. We put a high db gain omni and or directional antenna on it.

--- In ntms-hsmm@yahoogroups.com, "Timothy" <timothyhohara@...> wrote:
>
> I'm relatively new to HSMM, so I'm going to apologize in advance for any ignorance....
>
> I'm assuming that you were looking to run in the 2.4 GHz spectrum? If so how much power? The building owner is probably worried about you clobbering the Wireless LAN's in building on 2.4GHz. Being a WLAN Engineer I know I would be too.
>
> It's probably not any more "sinister" than that. I think some folks are reading way too much into this.
>
> How much power do folks typically run on 2.4 GHz?
>
> 73s,
> Tim
> W2TO
>
> --- In ntms-hsmm@yahoogroups.com, "kd5ktb@" <kd5ktb@> wrote:
> >
> > I would like opinions on this. We are trying to find and negotiate space on top of a building in our area and another HAM who already has a repeater at one particular site was asked to help. He presented the following to the building manager and then declined to help us negotiate access.
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> > Thanks, Tim KD5KTB
> >
>

1869. Re: [ntms-hsmm] Re: HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-12 17:54:55 UTC
From: Patrick Soileau ND5C
Topic: 1862 Message: 1869

I think its typically around 30mw or so... not a whole lot.

Under Part 97, we're allowed to use much more power, but most people would rather focus on the antenna system rather than microwave amps, cost and power consumption being two fairly good considerations.

I guess I'd argue more than anything else that the signal from an HSMM-MESH node put up on the roof wouldn't really be that strong inside the building, which would be directly below it, based upon the kind of antenna you'd be using.

Directional antennas would send the vast majority of the RF in a line-of-sight somewhere else, not where the building's WiFi users are located. Likewise, a omni-directional antenna, such as a stacked J-Pole, would have a fairly low radiation pattern downwards, essentially an RF "hole", towards the building's users below it.

In the absolute worse case scenario, however, it's certainly no worse than the folks in the building next door (well, everyone in the neighborhood) who are also operating WiFi systems of their own.

73,

Pat ND5C

From: Timothy <timothyhohara@...>
Subject: [ntms-hsmm] Re: HSMM-MESH Interference
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, May 12, 2010, 12:02 PM

I'm relatively new to HSMM, so I'm going to apologize in advance for any ignorance... .

I'm assuming that you were looking to run in the 2.4 GHz spectrum? If so how much power? The building owner is probably worried about you clobbering the Wireless LAN's in building on 2.4GHz. Being a WLAN Engineer I know I would be too.

It's probably not any more "sinister" than that. I think some folks are reading way too much into this.

How much power do folks typically run on 2.4 GHz?

73s,
Tim
W2TO

--- In ntms-hsmm@yahoogrou ps.com, "kd5ktb@..." <kd5ktb@...> wrote:
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> I would like opinions on this. We are trying to find and negotiate space on top of a building in our area and another HAM who already has a repeater at one particular site was

asked to help. He presented the following to the building manager and then declined to help us negotiate access.
> "HSMM-MESH may be near the frequency that their wireless networks operate, at that point the building manager asked me not to do anything that might even remotely be blamed for interference"
> So, how do we approach this concern with potential sites?
> Thanks, Tim KD5KTB
>

[Non-text portions of this message have been removed]

1870. Re: [ntms-hsmm] HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-12 19:07:30 UTC
From: Rusty Haddock
Topic: 1862 Message: 1870

kd5ktb@... wrote:
>I would like opinions on this. We are trying to find and negotiate
>space on top of a building in our area and another HAM who already
>has a repeater at one particular site was asked to help. He presented
>the following to the building manager and then declined to help us
>negotiate access.
>
>"HSMM-MESH may be near the frequency that their wireless networks
>operate, at that point the building manager asked me not to do
>anything that might even remotely be blamed for interference"
>
>So, how do we approach this concern with potential sites?
>Thanks, Tim KD5KTB

Presuming that the building does not have any WiFi related antennas
on their roof and said roof is more than just wood... My response to
potential sites:

Given our antenna pattern and low power levels (<100-mW with a 54g)
the concrete and/or steel in the roof's construction will block or
absorb most, if not all, incidental radiation from the antenna.
Because of the complexities of WiFi signals any interference, if
it could be legitimately detected, would be difficult to trace and
would more than likely be coming from adjacent buildings through
NON-SHIELDED openings such as glass windows.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1871. Re: [ntms-hsmm] HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-12 19:14:31 UTC
From: Rusty Haddock
Topic: 1862 Message: 1871

Rusty Haddock wrote:
>...
>Presuming that the building does not have any WiFi related antennas
>on their roof and said roof is more than just wood... My response to
>potential sites:
>
> Given our antenna pattern and low power levels (<100-mW with a 54g)
> the concrete and/or steel in the roof's construction will block or
> absorb most, if not all, incidental radiation from the antenna.
> Because of the complexities of WiFi signals any interference, if
> it could be legitimately detected, would be difficult to trace and
> would more than likely be coming from adjacent buildings through
> NON-SHIELDED openings such as glass windows.

Should have added -- "or rogue or undesired access points within the building."

-Rusty-

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1872. Re: [ntms-hsmm] Re: HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-12 20:07:06 UTC
From: Glenn Currie
Topic: 1862 Message: 1872

I am one of the original HSMM-MESH developers.

Several of us have been active in the field for about 8 years, so have had time to read about the theory, look at the topo maps, try out the simulation software and then see how stuff really performs in the field.

Long ago, I had one of the early ARPANET accounts and started reading academic papers on robotics, and communications systems. I have been reading the papers for 30 years now, so even a slow learner can pick up on trends if he blasts through 20 to 30 papers a week. Keeping up with the papers is what caused me to push for this auto linking mesh technology for our broadband radios. Mesh systems have been discussed for over a decade and are now being widely deployed in the field. They are used by the military and commercial systems for good reason and hams have similar needs for robust, easy to set up and configure emergency radios.

Most of the comments recently posted match closely my experience in the field. Here is a bit of what I have seen.

HSMM-MESH is very flexible so you could set it up almost any where, but in say on a hospital roof, what we find is that the building Wi-Fi is designed to cover the inside of the building and our mesh node is designed to cover outside the building and with basic knowledge of antenna patterns, you can put your signal where you want. It is good to verify a pattern with test equipment, but if you have installed a dozen of the same type antenna, you get pretty good at knowing what to expect from the pattern.

So the comment that interference between the indoor hospital Wi-Fi and the mesh node outside is usually minimal, is borne out in what I have seen.

We routinely do 10 mile hops using a 35 - 50 mw WRT54G based mesh node. This is a point to point to point link using horizontal polarization to take advantage of the fact that much of the Part-15 devices use roughly vertical polarization. So we can be surrounded by APs at each end of a 10 mile link and with highly directional antennas, we get very good signal strength, relative to devices out of the pattern of the antenna.

We have worked with amps to try them out, but with a microwave signal we have found you either have a good path or not. If you do not have a good path, you need to get a good path or have an amp powerful enough to burn a hole in any obstruction, in order to have a good path. Amps can be of some help in marginal situations in an emergency, but you also amplify the noise with the signal so if you have marginal signal to noise ratio, the amp is not going to help much. The trick is you can use low power if you get a good path

and thus put your signal where you want it. With an amp, you can easily just make a mess of things and still not get a good link.

One place where an amp works well is if you cannot get the radio near the antenna. Commercial microwave guys with lots of money often still put the radio right behind the antenna because the feed line loss is so bad at microwave frequencies. These guys could buy the best hard line available but still often choose to put the radio right by the antenna to do side step feed line loss.

BUT if you find your self in a situation, like we did, where there is an existing antenna up at 300 feet on a tower, and the feed line in the radio shack is not connected to anything, you work with what you have. Plug in a mesh node and see how it gets out.

Inside the feed line you do have loss but you
are in a highly shielded environment so you have little noise, so an amp can work well. It did for us in this case. The amps used are Bi-directional amps so they amplify the received signal as well. So with both the transmit and receive signal amplified the feed line loss is largely overcome with an amp. So here a 500mw amp worked like a champ.

At 300 feet up I was able to link to the node from 5 miles away using a patch antenna on the top of my car. I had to get to a place where I could see the tower and antenna for it to work. Move over a few feet ... and nothing.

In another field experiment we set up two WRT54G based HSMM-MESH nodes on tripods with the radios in a weather proof enclosures attached to the tripod mounted mast, just below an 11dB omni directional antenna. The antenna was at about 5' above the ground. We placed another like system 7 miles away and with about 50mw we linked over the 7 mile path.

Our test range is a section of highway 290 between Austin and Elgin, TX. it is straight as an arrow, and the topo maps showed us were there were some slight hills on each end of the "test range" so we had basic line of sight, but not even a completely clear Fresnel zone.

So we use this a a type of rule of thumb for a best case situation. We had no obstructions, the area was pretty quiet with regards to RF and conditions in general were good. So if you have near optimum conditions, we have done links of 7 miles on 50mw with 11dB omni directional (omnis not directional) antennas.

As you move into an area with path obstructions and lots of RF, range will degrade, but at least there is a known and tested best case example to keep in mind.

Now on to the clever design of the Wi-Fi signals. I read one paper where some grad students put Wi-Fi gear near microwave ovens to test noise immunity. The spread spectrum signaling technique is specifically designed for great noise immunity. After much testing the conclusion was that they could offer no suggestions for the improvement of the spread spectrum system used by 802.11b/g Wi-Fi devices.

When near enough a microwave oven the signal can be blocked. But if you get a few feet away from the microwave oven, data starts to flow. There are errors and re-sends but the little radios have multiple ways to make nothing short of a heroic effort to get your data through. By the time you get 30 feet away, the microwave oven has very limited effect on the throughput of cheap consumer Wi-Fi gear.

One reason the gear is so popular is that you can do a sloppy installation, leave the AP on the floor with the antennas folded up and the system will still work reasonably well for the space inside a normal house. If the radios were finicky, then people would have problems with them and tell everyone they are junk and not to buy them. The 802.11b/g units sell by the millions to people that know nothing of radio theory.

In doing surveys using Kismet and NetStumbler, I have surveyed the University of Texas area in Austin. This is another good test site. This one is "worst case" With all the student housing on the west side of the U.T. campus, it is easy to find an apartment complex with 12 routers on the same, "out of the box" channel setting and no encryption turned on etc. Literally right out of the box and plugged in. While there are many packet collisions and re-sends, most users never notice it as the effective throughput remains quite good in most instances. The radio link typically remains much faster than the cable data rate from the ISP feeding the radio. So a dozen AP within a few feet of each other on the same channel regularly pass data well enough that the users never notice.

There can be problems, don't get me wrong but you really need to tinker with these systems to have an appreciation for how robust they are. I found the robustness and data rates counter intuitive in these bad situations.

I regularly run 30 - 40 mesh nodes and a mix of plain Wi-Fi gear in my house. At times I have 25 units literally stacked one on top another with their plastic antennas touching. There can be problems but am impressed with how well these systems cope with like devices on the same channel.

So from what I expected, I have over the years come to expect much less harmful interference with these 802.11a/b/g radios. You could have a problem but I think you would have to work real hard to ever cause a problem with a well laid out hospital Wi-Fi system. With free packet logging software like WireShark, you can see some interaction but most users would never notice.

(I have found the 802.11a radios be be a bit more finicky about antenna placement.)

So potential interference between a mesh node servicing sites outside the building seldom, in my experience cause any problems with the WI-Fi systems the hospitals have for use inside the building. Carefully choose your antennas with the pattern that will put your signal where you want it and we have not really had any interference problems at any of our sites.

Note that your gain omnis have a sort of donut pattern. With the antenna on top of the building, little of your signal is going directly down, and an you have the roof that usually has metal in it, between you and the radios in the building.

Go to a highly directional antenna, and you put almost no signal into the building holding the mast, unless you aim the antenna straight into the building. So with a high gain dish or yaggi, your chances of creating harmful interference with the Wi-Fi system in the building approaches zero ad you are aiming your signal away from the building.

You can use the "Wi-Fi scan" feature of the HSMM-MESH firmware to see what Wi-Fi signals the mesh node sees. You can also link to any live mesh node in your network and ask it to show you what Wi-Fi signals it sees. So you can collect data on the Wi-Fi environment for each node in your network.

It is good to check what each node can see on a regular basis as the Wi-Fi landscape can change rapidly.

Our longest link with the WRT54G units without amplifiers has been just under 16 mile. That was the limit of local sites we could easily access that provided a line of sight path.

All of the remarks above are for a WRT54G that has no real changes other than loading HSMM-MESH firmware and adding a good antennas (except for the parts where I was explicitly talking about amps) so as stated by others, we find limited use for amps for HSMM work.

There is a long standing type of microwave work where hams use high power and send CW and see how far they can get out, often from mobile rigs. The NTMS and Roadrunner Microwave Group are full of hams that do this kind of microwave work. Their experience is very valuable and it is most helpful to talk with these guys about their field work and antennas. But a high power narrow band brief contact for a QSO, is somewhat different task that than pushing a 22MHz broadband signal out and maintaining signal integrity for long periods of time. They are related but also have their distinct differences.

Most of the narrow band microwave hams use a lot of power and for the work they are doing, it is a must.

For HSMM work where we may leave a transmitter on for hours, days or months at a time, you need to decide what area you wish to cover reliably and put your signal there. Keep in mind the 7 mile links we have done with no amps and only 11dB omni antennas and consider if you need an amp or not. Even commercial point to point microwave networks feed more than 10 watts into the antenna and it is much more common to use 1 to 4 watts max into the antenna.

A good path is key. One "well placed" tree in your path will eat your signal. A number of hams and certainly the commercial microwave guys have been doing microwave work for decades and they spend the money to get good sites. Even for people with a big budget the physics rules. They spend the money for a better site, not a bigger amp.

Your conditions may vary and you have to do what the physics dictates for your particular link, but think twice before slapping on an amp, before you even try the system. The RF path calculators are helpful. They will get you in the ball park if you use them correctly and model your height, feed line loss, antenna gain and path. If the software shows a bad path, an amp is not likely to do you much good. Some of the better software allows you to feed in your power level. Go ahead and plug in a big number and see what the path analysis looks like. Amps can be useful when used carefully, but they are far from a cure all to make a link.

The work horse VHF and UHF radios have their own propagation characteristics. They tend to be much more forgiving than propagation for microwave signals. The trade off for bothering with the LOS path requirements for microwave is that you can get massive bandwidth. With a good link, you can pass the entire ARRL hand book in 30 - 40 seconds. If you have a good path, you can open a real fat data pipe.

This is just some of my experience, I encourage you to get out and try some of these interesting little radios. They are relatively inexpensive and can be a lot of fun. I am always interested in any field experience people can share. There is always more to learn and yet another installation or path challenge to study.

-Glenn
KD5MFW
kd5mfw@...

--- On Wed, 5/12/10, kd5ktb@... <kd5ktb@...> wrote:

From: kd5ktb@... <kd5ktb@...>
Subject: [ntms-hsmm] Re: HSMM-MESH Interference
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, May 12, 2010, 10:33 AM

"Write it off and find another building" Yes, already going down that path, but I am looking for information on how others may have approached building managers and building IT managers who will have these same concerns and questions. I agree, in this case, we were not even allowed to address any concerns. So, I plan to not allow that to occur again. How have others addressed these interference concerns?

Thanks,Tim

--- In ntms-hsmm@yahoogrou ps.com, Patrick Soileau ND5C <patrick@... > wrote:

>

>

> Tim,

>

> Without knowing anything else about the situation, my first reaction

> is that the ham in question who already has a repeater setup on the

> site doesn't want anyone messing up his "honey hole".

>

> While what he said was absolutely the truth, I can't help but believe

> that the manner in which it was stated was such that it would lead

> a supposedly non-technical building manager to believe that this

> new-fangled thing would not be a passive resident on the roof as is

> his current repeater.

>

> For what it's worth, that building manager is tainted... by misleading

> info... and he's made up his mind. He's known this other guy, who

> assumedly has a track record for not causing trouble. He believes the

> other ham due to his past experiences and is not inclined to give you

> (the "new guy") a break because the guy he's trusted has said that

> you *might* be a troublemaker.

>

> Write it off and find another building.

>

> If you want to see just how petty and childish repeater owners/trustees

> can act, just look at some of the politics and foolishness that takes

> place in the Texas VHF-FM Society.   'nuff said.   :)

>

> 73,

>

> Pat ND5C

>

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> From: kd5ktb@... <kd5ktb@...>

> Subject: [ntms-hsmm] HSMM-MESH Interference

> To: ntms-hsmm@yahoogrou ps.com

> Date: Wednesday, May 12, 2010, 8:20 AM

>

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>

>

>

> I would like opinions on this.

> We are trying to find and negotiate space on top of a building in our area and another HAM who already has a repeater at one particular site was asked to help. He presented the following to the building manager and then declined to help us negotiate access.

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> "HSMM-MESH may be near the frequency that their wireless networks operate, at that point the building manager asked me not to do anything that might even remotely be blamed for interference"

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> So, how do we approach this concern with potential sites?

>

> Thanks, Tim KD5KTB

>

>

>

> [Non-text portions of this message have been removed]

>

[Non-text portions of this message have been removed]

1873. Re: [ntms-hsmm] Re: HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-12 17:52:20 UTC
From: jbeadles@pobox.com
Topic: 1862 Message: 1873

Along these lines, let me relate something from our past experience. This will not answer the original question, but is a cautionary tale.

On our 17 story company building, we were allowed to put radios on the roof. Now, we have experience putting up multi-mile links, but we were not able to make the .5 mile path work from our roof to a shorter nearby building. The problem appeared to be on the other end. Our company building was full of 2.4 & 5.8 GHz APs, and they reduced the S/N at the far end of the path low enough that the path could not work. We tried up to 43 dB of total antenna gain, but nothing worked.

We're pretty sure about this. When we started experimenting, there were no APs in the building, and we were able to use the roof to make up to 20mi links. Once the APs went in (5 to 7 per floor), no such luck.

This was with the WRT54Gs, which did not have a great receive threshold.

On 12 May 2010 at 12:17, David McAnally wrote:

> Also the ERP and radiation pattern from the top of the building should
> be understood and explained, not to mention the design and operating
> characteristics of 802.11. I would expect wireless routers inside and
> around the building pose a greater impact to each other, than one on
> top of the building. I suspect microwave ovens and 2.4GHz phones
> inside the building cause more interference. You probably won't
> convince that building manager or other ham of that. But might be
> good to have that information in presentations for other potential
> sites to counter the interference question if raised.
>
> David McAnally, WD5M
>
>
> --- In ntms-hsmm@yahoogroups.com, "kd5ktb@..." <kd5ktb@...> wrote: > >
> > > I would like opinions on this. We are trying to find and negotiate
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> blamed for interference" > > So, how do we approach this concern with
> potential sites? > > Thanks, Tim KD5KTB > > > > > > >
>
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> [Non-text portions of this message have been removed]
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> ---
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> Yahoo! Groups Links
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1874. Re: [ntms-hsmm] Re: HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-13 01:52:32 UTC
From: Glenn Currie
Topic: 1862 Message: 1874

All very good info. Thanks for relating it.

When you mentioned the tall buildings, it reminded me of an even more
off the original topic, but still possibly of interest bit of info.

The weather in Texas gets so hot that most of the glass covered tall
buildings use a type of reflector glass made with powdered metal in them
to help keep some of the suns radiation out. I personally knew of an older
building where they added a stick on reflective film on the inside of the
windows to help keep the cooling bills down. They saved over $16,000.00 a year
in cooling costs.

The key point I was getting to, is these windows tend to block RF to some extent.
If you ever work inside or outside a building with these type windows you need to
remember the metal in the glass. In some cases it can act to help contain the
RF of now widely used Part-15 APs to inside the building. But blockage is not 100%.

More to my point, I have done portable work where I tried to transmit a signal
out an upper floor window to a mesh node outside the building, and of course the
mesh node outside was trying to get through the glass to me. In some cases there
seemed to be minimal blockage but in some cases the RF blockage was significant.

We do not usually run enough power on our HSMM systems to be of danger, still we
encourage all users to always assume that significant power is being radiated and
just make it a habit to not walk in front of a dish antenna, or in the case of the
reflective glass, don't crank up the power, trying to make a link out a window that
has glass in it acting like a RF mirror.

"Its not working, crank it up. It is still not working, crank it up. Do you feel warm?"
;-)

If you work with the HSMM-MESH stuff long enough, your will probably find a time
when you can take a throw box and a small yaggi antenna up in a tall building and
try making contact with another node somewhere outside the building - and you will
be faced with a potentially highly RF reflective window.

A "throw box" is a term used by the DieselNet researchers at UMass for
a radio, battery and everything in a small plastic box. We use the plastic ammo boxes
as the factory WRT54G antennas fold up and work through the plastic case just fine
for short range work. I also aim a patch antenna out one end of the throw box,
through the plastic - works like a champ.

Anyway, I did window shots from several tall buildings in Austin to a target node
that was about the same distance from all the buildings my link was in, and the
signal strength varried tremendously. Basically for the one really old building with
no reflector glass the signal strength was the highest, and in the newest building,
with reflector glass, the link signal was the lowest.

Users often do not take care in how they place an AP so some of the manufacturers really kicked up the transmit power level and added multiple antennas.

In my microwave RF filled house, my laptop always wants to link first with my neighbors AP, instead of mine because the neighbors AP signal strenth is higher in my house than my any of the 2.4 GHz gear I have, unless I turn on one of my 1 watt amps.

I sometimes joke that my neighbor is burning my shadow into the paint on my bedroom wall nearest his AP and he may be steralizing somthing in his own house. The point is that with all the RF toys I have on in the house, his AP has a higher relative signal strength in my house than my local gear.

(the neighbor does not have powdered metal reflectorized windows.)

Such reflector windows can be used as an RF reflector as I have linked mesh nodes by bouncing a signal off a shiny building to another, around the corner.

Shooting straight up at the bottom of a metal curved belly water tower, I have linked to AD5OO about a mile away. We had no line of sight, but the bank shot off the belly of the water tower worked.

Anyway, as the RF
noise floor goes up, a number of the Part-15 APs have a much stronger signal than most of the older gear. So the Wi-Fi surveys are good to do often. Somebody buys a new AP to replace an old one an you could have an intference problem you did not have the day before.

Please share any field experince you have. There is a great deal of some types of Wi-Fi related info on the Internet, but not that much related to the type work were are getting into with HSMM. One area where there is very little info is on any studies of signal strentgh over extended periods of time. Seems things move fast with much of the Internet crowd. Lots of quick info about some project, but almost nothing of how it is going a year later.

We will eventually get some write ups on some field work posted on our web page hsmm-mesh.org, but all the developers keep real busy and new material is getting posted slowly.

-Glenn

--- On Wed, 5/12/10, jbeadles@... <jbeadles@...> wrote:

From: jbeadles@... <jbeadles@...>
Subject: Re: [ntms-hsmm] Re: HSMM-MESH Interference
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, May 12, 2010, 12:52 PM

Along these lines, let me relate something from our past experience. This

will not answer the original question, but is a cautionary tale.

On our 17 story company building, we were allowed to put radios on the

roof. Now, we have experience putting up multi-mile links, but we were not

able to make the .5 mile path work from our roof to a shorter nearby building. The problem appeared to be on the other end. Our company building was full of 2.4 & 5.8 GHz APs, and they reduced the S/N at the far end of the path low enough that the path could not work. We tried up to 43 dB of total antenna gain, but nothing worked.

We're pretty sure about this. When we started experimenting, there were no APs in the building, and we were able to use the roof to make up to 20mi links. Once the APs went in (5 to 7 per floor), no such luck.

This was with the WRT54Gs, which did not have a great receive threshold.

On 12 May 2010 at 12:17, David McAnally wrote:

> Also the ERP and radiation pattern from the top of the building should
> be understood and explained, not to mention the design and operating
> characteristics of 802.11. I would expect wireless routers inside and
> around the building pose a greater impact to each other, than one on
> top of the building. I suspect microwave ovens and 2.4GHz phones
> inside the building cause more interference. You probably won't
> convince that building manager or other ham of that. But might be
> good to have that information in presentations for other potential
> sites to counter the interference question if raised.
>
> David McAnally, WD5M
>
>
> --- In ntms-hsmm@yahoogroups.com, "kd5ktb@..." <kd5ktb@...> wrote: > >
> > > I would like opinions on this. We are trying to find and negotiate
> space > on top of a building in our area and another HAM who already
> has a repeater > at one particular site was asked to help. He
> presented the following to the > building manager and then declined to
> help us negotiate access. > > "HSMM-MESH may be near the frequency

> that their wireless networks > operate, at that point the building

> manager asked me not to do anything that > might even remotely be

> blamed for interference" > > So, how do we approach this concern with

> potential sites? > > Thanks, Tim KD5KTB > > > > > > >

>

>

> [Non-text portions of this message have been removed]

>

>

>

> ---

>

> Yahoo! Groups Links

>

>

>

[Non-text portions of this message have been removed]

1875. Re: [ntms-hsmm] Re: HSMM-MESH Host tips

Yahoo group: DAWG-HSMM
Date: 2010-05-13 03:51:12 UTC
From: Glenn Currie
Topic: 1862 Message: 1875

A few other bits of info regarding working with a host for a HSMM-MESH node:

We have shared a bit of info regarding the mesh node interfering with a Wi-Fi system in a host building. That is on the RF side of things.

Other issues can be if you plan to try to ask for an Internet connection for the node. You need to plan this well as there are many implications - maybe for another post, so I can try to stay on topic.

We run UV resistant, shielded CAT-5 type cable up to our mesh nodes and use POE to run power up the same cable. Most new buildings are pre-wired for computers and have CAT-5 type wire run on each floor and one or more equipment closets on each floor so they can use a patch panel to make a link anywhere on a floor of even floor to floor to any room, without having to pull new wire.

When you talk about getting from the roof to a radio shack or an equipment room for your POE injector and or a server, the building facilities people may want to use their pre wired computer cables - that is what they are for. Try to avoid this. Run your own cable so you are completely seperate from any of the buildings network cables.

We always try to run our "feed line" down the same paths as any coax we might have for other radios, and do all our lightning protection ourselves and avoid being connected to the buildings computer network in any way. If we wish to provide an Internet link, we go through an optical network coupler from the ISP and then send the signal up from the POE injection point in an equipment room or the radio shack.

It can be tremendously helpful to not have your cable runs have anything to do with the buildings pre-wired network cables. Be physically separate and only connect, if allowed to, via an optical link to isolate the connection to avoid allowing lightning into your host's network.

In many meetings, you may find it helpful to
fight FUD by repeating the mantra "we are not physically connected to any of your network cables. We are not physically...." There have been times where people kept going on and on how we were going to burn up the buildings network cables... If you can keep your wires physically separate, then it is simple enough that even a non technical person can understand. We are not physically connected to your network. This may sound silly but this sort of thing comes up often when talking to a potential host, having separate cable runs is the only thing that will save the day.

If your host will not provide you an Internet connections, and many of ours will not, for security reasons, they can also complain about your network cables being a problem. A real IT guy will be able to understand that your cable is completely separate from his network wiring in the building but we have had problems with less well informed and less technically competent people going NUTS when they see you are running network cable. The black UV outdoor shielded CAT-5 type wire we use is gel filled

as well so it can be used for direct burial if need be. But the biggest help is that it has a black jacket and is about the same diameter as RG-8 coax. So at a glance it looks like RG-8. Do not seek to dispel this misconception. ;-)

So if we ALWAYS refer to it as FEED LINE and not CAT-5 or network cable, it saves an unbelievable amount of trouble. So remember - it is RADIO FEED LINE!

Use technical incompetence to your advantage.

So the two tips - run your FEED LINE through the paths that would be used for coax cable for radio antenna feed lines, and remember it is FEED LINE, not network cable.

-Glenn

--- On Wed, 5/12/10, kd5ktb@... <kd5ktb@...> wrote:

From: kd5ktb@... <kd5ktb@...>
Subject: [ntms-hsmm] Re: HSMM-MESH Interference
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, May 12, 2010, 12:45 PM

Hi Tim,

With HSMM we can add power, but choose not to for various reasons. Primarily because we do not need to. So, all we use is a standard WRT54G wireless router just like they probably have inside the building in several locations. We do not add any power to the device. I think the part 15 wifi power is 1.0w. Max EIRP is up to 4w. Point to point is maybe 6w. But for what we want to do, we would be at the lower power. We put a high db gain omni and or directional antenna on it.

--- In ntms-hsmm@yahoogrou ps.com, "Timothy" <timothyhohara@ ...> wrote:

>

> I'm relatively new to HSMM, so I'm going to apologize in advance for any ignorance... .

>

> I'm assuming that you were looking to run in the 2.4 GHz spectrum? If so how much power? The building owner is probably worried about you clobbering the Wireless LAN's in building on 2.4GHz. Being a WLAN Engineer I know I would be too.

>

> It's probably not any more "sinister" than that. I think some folks are reading way too much into this.

>

> How much power do folks typically run on 2.4 GHz?

>

> 73s,

> Tim

> W2TO

>

> --- In ntms-hsmm@yahoogrou ps.com, "kd5ktb@" <kd5ktb@> wrote:

> >

> > I would like opinions on this. We are trying to find and negotiate space on top of a building in our area and another HAM who already has a repeater at one particular site was asked to help. He presented the following to the building manager and then declined to help us negotiate access.

> > "HSMM-MESH may be near the frequency that their wireless networks operate, at that point the building manager asked me not to do anything that might even remotely be blamed for interference"

> > So, how do we approach this concern with potential sites?

> > Thanks, Tim KD5KTB

> >

>

[Non-text portions of this message have been removed]

1876. Re: [ntms-hsmm] Re: HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-14 07:42:06 UTC
From: kevin asato
Topic: 1862 Message: 1876

How much power do folks typically run on 2.4 GHz?

About as much as my microwave oven puts out!
Sometimes between that or the steam from a pot of boiling water is enough to knockdown the WiFi in my house (off the shelf WiFi to a laptop computer about 40 feet through the house).
73,kevinkc6pob

[Non-text portions of this message have been removed]

1877. Re: HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-15 14:28:06 UTC
From: h0chus_p0ckus
Topic: 1862 Message: 1877

Tim-
There are a lot of politics and buddy games involved with many ham repeater sites, so it may not pay to go any further. But you might try to speak to the building manager face to face, when he's not busy, and remind him that "interference" doesn't have to be a great mystery.
When Edison was trying to sell folks on electricity there was great fear that AC could somehow leak out of the outlets and kill everyone, all by itself. The folks selling DC were behind the rumors, of course.
That's what happens when folks just don't understand things.

So you conveniently bring a laptop loaded with inSSIDer (freeware for Windows) or similar software, that can sniff out and display all the WiFi systems reaching a spot, and you can show th ebuilding manager, very quickly and simply, just how many other WiFi routers are active, which channels they are on, and how powerful they are. And at the same time--that will show you if that's a good spot for yours, or if there are too many other users in the same location anyhow.

Of course, if you can sneak up there and check it out before you speak to him...<G>...even better to be prepared.

If he doesn't want to be bothered, OK, he doesn't want to be bothered. You might want to look for some pitch for building managers in general, that gives them some benefit from letting you locate in their space. (Tax deduction, emergency communications, good PR, cash in hand...whatever.)

--Red

1878. Re: HSMM-MESH Interference

Yahoo group: DAWG-HSMM
Date: 2010-05-21 12:18:42 UTC
From: kd5ktb@swbell.net
Topic: 1862 Message: 1878

Thanks to everyone for your suggestions on this topic. I appreciate it. We will try to revisit and update this as we move forward with our search for site locations and approaching site managers. 73's KD5KTB.

--- In ntms-hsmm@yahoogroups.com, "kd5ktb@..." <kd5ktb@...> wrote:
>
> I would like opinions on this. We are trying to find and negotiate space on top of a building in our area and another HAM who already has a repeater at one particular site was asked to help. He presented the following to the building manager and then declined to help us negotiate access.
> "HSMM-MESH may be near the frequency that their wireless networks operate, at that point the building manager asked me not to do anything that might even remotely be blamed for interference"
> So, how do we approach this concern with potential sites?
> Thanks, Tim KD5KTB
>

1879. Re: [ntms-hsmm] Was: HSMM-MESH Interference, site considrations

Yahoo group: DAWG-HSMM
Date: 2010-05-21 17:16:12 UTC
From: Glenn Currie
Topic: 1862 Message: 1879

Good luck with your search for a good site.

If a site is technically in a good spot, then the effort falls more into a diplomatic and / or a political one. I will touch on this in my Hamcom 2010 presentation.

We started off our HSMM-MESH efforts to augment the existing ARCHES amateur radio stations in Austin area hospitals. Once we got all the technical issues solved for that network, the expansion of a microwave backbone in the area and sharing the technology with other hams has expanded the project.

Without good microwave sites, a project will not gain much coverage. Microwave needs Line of Sight locations in order to work, but like any linked radio system, it takes a lot of time and effort to gain wide coverage, and finding good host sites is essential.

I guess since it is not a technical subject, I have not found much ARRL material that deals with getting good sites for radio relays. Finding good sites has become more and more a challenge. We find that radio towers and tall buildings in Austin, are often owned by some company in New York, City. Instead of checking with a local TV station or a local owner of a tall building for a radio site, we are left to write letters to
a New York address. Needless to say, the owners generally do not have much interest in what we are attempting to do, even if they understand it.

Another thing that has changed over the years is the deployment of cell telephone towers, and cell sites on tall buildings. The cell companies pay a hefty monthly fee for rental of the space. Often when hams come along, the landlord has expectations set by what rental rate they get from a phone company. Most are not familiar with ham radio and, free space for radios just makes no sense to them.

While it has not caught on, I had suggested, several years ago, that the local radio club have a relay site committee to work year round, year after year, to secure relay sites. Since it sometimes takes years to negotiate a site, and the effort is getting ever more challenging, it would seem to make sense to have a list of various types of ham radio emergency radio gear that would be helpful in our area and have some hams working to secure sites, on an on going basis.

One other thing that we have to deal with is the ebb and flow of interest in emergency preparation of any kind, once a few years have passed since the last disaster. Once the storms like Katrina, Rita and Ike are a few years in the past, the urgency and potential support for emergency radio systems tends to diminish.

One thing that I have done in the Austin area is to scout out easy to access microwave relay sites and have portable equipment ready to deploy at known good locations. The sites include a collection of open parking garages and local high spots we can access in the area. If need be, we know how to set up portable relays to get around many sites ion our area. We have several really good locations where multiple relatively long

range links can be used to serve as a microwave nexus site. From one site, as many as 6 point to point links can be made, linking multiple sites around town.

While it is good to have enough fixed sites to have a microwave backbone in an area, we never expect to have the infrastructure and coverage of the cell phone companies, so we need to be adept at setting up portable links. Each New Years day, a few of us go out and try links from a variety of locations in the field in a type of microwave field day exercise. We pick out a number of sites that look workable on topo maps and go out and see if, indeed, we can set up links from the locations.

So portable gear can be used to temporarly expand a HSMM-MESH network for a particular incident.

At some point in the future we hope to have most of the hospitals and a few other host sites set up as store and forward sites for a type of networking the military uses called Disruption Tolerant Networks, where the design is such that most nodes in the network are not connected most of the time. This is the opposite of the old model where you expected wired network connection to be on line almost 100% of the time.

With store and forward computer servers running at key fixed sites, a ham driving by in a vehicle would pass data every time they drove by one of these sites. They would serve as what is termed a "data mule" where data is physically transported for part of its journey to its destination. We have found that there is plenty of time to pass significant data driving by a fixed node at 70 mph. There is some interesting antenna design with for and aft aimed yagis that I have done that shows that one can usually maintain a link for several minutes while driving past a site near I-35 as it passes through Austin, at 55mph (we never speed right?) In rush hour vehicle traffic, you could relay massive amounts of radio message traffic.

Considering you can pass the entire ARRL handbook in well under 1 minute on a good link, you do not have to maintain a connection for long if both systems are constantly looking for nodes coming into range. Hospitals are always located on major roads to allow for better ambulance coverage of an area.

So, for example sitting in the drive way over night a mobile node in a car or truck, could buffer messages in Round Rock, Tx. north of Austin. Then the next time the ham that owned the vehicle drove into Austin, data would get passed to other nodes, somewhat as a honey bee pollinates plants.

We have done some work with small, low power computers that have solid state disk drives, no fans - no moving parts. These are not massively powerful computers by todays standards, but they work fine for specialized sub systems of digital radio systems - another presentation.

The application software that runs on top of the basic HSMM-MESH network, would need to collect messages, discard duplicate messages and pass the information on to other servers in the network. While it could possibly work on a dense HSMM-MESH network, it could also have a model where the messages are sent to a central server on the Internet, somewhat like APRS data.

There are people in the academic and DARPA funded research fields that are actively producing papers and software to do the sorts of things I just described.

Such systems are already in use in places like India, where the buses that go between towns serve as data mules to pass data, coming and going, for people in each town. The system is used due to having little to no infrastructure in place. This is pretty much the same problem faced in disaster emergency communications - whatever infrastructure was in place is gone or non functional, so DTNs and data mules are very robust, you control the infrastructure and they can continue to operate under the worst of conditions.

For emergency work, it is good to control all the infrastructure, because in an emergency the only thing that works is what you brought with you. But as APRS has found many uses over time, so will HSMM-MESH. In fact another whole presentation could be made on passing APRS packets via HSMM-MESH. No need to reinvent that wheel.

Enough for now, but keep in mind that portable and mobile HSMM-MESH nodes have a lot of applications. HSMM-MESH is not just for fixed links.

During real emergencies the local Red Cross does not have enough physical space to house all the helpers. With the HSMM-MESH live at the Red Cross, and linked into their network, hams can sit in the parking lot, or even down the street and help pass traffic, without having to physically be in the over crowded building. Just pull up with your mobile HSMM-MESH node and laptop and you are in as soon as you come within RF range.

Food for thought.

-Glenn

--- On Fri, 5/21/10, kd5ktb@... <kd5ktb@...> wrote:

From: kd5ktb@... <kd5ktb@...>
Subject: [ntms-hsmm] Re: HSMM-MESH Interference
To: ntms-hsmm@yahoogroups.com
Date: Friday, May 21, 2010, 7:18 AM

Thanks to everyone for your suggestions on this topic. I appreciate it. We will try to revisit and update this as we move forward with our search for site locations and approaching site managers. 73's KD5KTB.

--- In ntms-hsmm@yahoogroups.com, "kd5ktb@..." <kd5ktb@...> wrote:

>

> I would like opinions on this. We are trying to find and negotiate space on top of a building in our area and another HAM who already has a repeater at one particular site was asked to help. He presented the following to the building manager and then declined to help us negotiate access.

> "HSMM-MESH may be near the frequency that their wireless networks operate, at that point the building manager asked me not to do anything that might even remotely be blamed for interference"

> So, how do we approach this concern with potential sites?

> Thanks, Tim KD5KTB

>

[Non-text portions of this message have been removed]

1880. Maximum Range?

Yahoo group: DAWG-HSMM
Date: 2010-05-25 02:28:43 UTC
From: W5ACM
Topic: 1880 Message: 1880

I have been working with some of my gear here in Houston, but notice that the firmware seems to limit out for the distance setting at 9900 meters. If the distance is set to 0 meters, will it work farther, assuming the proper antennas and power amps are used?

TNX Andy

1881. Re: [ntms-hsmm] Maximum Range?

Yahoo group: DAWG-HSMM
Date: 2010-05-25 03:56:07 UTC
From: Kipton Moravec
Topic: 1880 Message: 1881

On Tue, 2010-05-25 at 02:28 +0000, W5ACM wrote:
> I have been working with some of my gear here in Houston, but notice that the firmware seems to limit out for the distance setting at 9900 meters. If the distance is set to 0 meters, will it work farther, assuming the proper antennas and power amps are used?
>
> TNX Andy
>
>

I did 10 miles on May 15 for about 5 hours during the Wild Ride bicycle rally.

I set the number to 20000 m and it rounded down a little. But it worked.

I am not aware of a maximum value but I have not tried higher than 20000 because I have not needed to.

Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1882. Re: Maximum Range?

Yahoo group: DAWG-HSMM
Date: 2010-05-25 04:02:57 UTC
From: W5ACM
Topic: 1880 Message: 1882

Very cool Kip! I will continue to hunt for a max distance, and would appreciate any help with this issue. I put in 50000m, and got 1M after reboot... What I need is a max of 390 miles, i.e. the horizon as seen from 100,000 feet, but will take whatever I can get!

Andy

--- In ntms-hsmm@yahoogroups.com, Kipton Moravec <kip@...> wrote:
>
> On Tue, 2010-05-25 at 02:28 +0000, W5ACM wrote:
> > I have been working with some of my gear here in Houston, but notice that the firmware seems to limit out for the distance setting at 9900 meters. If the distance is set to 0 meters, will it work farther, assuming the proper antennas and power amps are used?
> >
> > TNX Andy
> >
> >
>
> I did 10 miles on May 15 for about 5 hours during the Wild Ride bicycle
> rally.
>
> I set the number to 20000 m and it rounded down a little. But it worked.
>
> I am not aware of a maximum value but I have not tried higher than 20000
> because I have not needed to.
>
> Kip
>
>
>
>
> --
> Kipton Moravec AE5IB .- . ... -...
>
> "Always do right; this will gratify some people and astonish the rest."
> --Mark Twain
>

1883. Lost GUI Access to Node

Yahoo group: DAWG-HSMM
Date: 2010-05-25 22:20:01 UTC
From: wb5nfc
Topic: 1883 Message: 1883

I recently downloaded and installed the latest version of HSMM-Mesh for one of my Linksys WRT54 V2 routers. Install was flawless until I started messing with the configuration options and ended up with no ability to communicate with the router. I'm not ready to try a reinstall via TFTP yet. Router doesn't necessarily seem to be 'bricked' from what I see on the status lights. Any advice for this HSMM-Mesh newbie - on, or off the list?

Thanks in advance.

John / WB5NFC

1884. Re: [ntms-hsmm] Lost GUI Access to Node

Yahoo group: DAWG-HSMM
Date: 2010-05-25 23:06:02 UTC
From: Glenn Currie
Topic: 1883 Message: 1884

I am not sure how far you got with the update.

After the firmware load of HSMM-MESH(tm) version 0.3.3 you will need to go to the GUI at the base address plus port :8080. Are you doing this?

ex.

KD5MFW-016:8080

takes me to the GUI for mesh node http://localnode:8080. On previous versions of the firmware you did not have to type in the :8080 port number.

Also, be sure you go to the setup page and set whatever you like then you MUST click the button that saves the changes. Even if you make no changes, the first time after a new firmware load, you must go to the set up page and save changes. This saves needed settings to the flash memory.

If you continue to have problems, try holding down the reset button on the back of the router for 30 seconds and see if you can get back into the Linksys firmware and try loading again. This seldom works, but after doing about 100 routers, I find that some have reverted back to the Linksys firmware. It is worth a try.

Give these things a try before I get off into more obscure and less often encountered failure modes.

-Glenn

--- On Tue, 5/25/10, wb5nfc <wb5nfc@...> wrote:

From: wb5nfc <wb5nfc@...m>
Subject: [ntms-hsmm] Lost GUI Access to Node
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, May 25, 2010, 5:20 PM

I recently downloaded and installed the latest version of HSMM-Mesh for one of my Linksys WRT54 V2 routers. Install was flawless until I started messing with the configuration options and ended up with no ability to communicate with the router. I'm not ready to try a reinstall via TFTP yet. Router doesn't necessarily seem to be 'bricked' from what I see on the status lights. Any advice for this HSMM-Mesh newbie - on, or off the list?

Thanks in advance.

John / WB5NFC

[Non-text portions of this message have been removed]

1885. Re: [ntms-hsmm] Lost GUI Access to Node

Yahoo group: DAWG-HSMM
Date: 2010-05-25 23:09:45 UTC
From: Rusty Haddock
Topic: 1883 Message: 1885

```
John,
Remember that the new version, 0.3.3, of the firmware now uses
port 8080 for the Web server. Hopefully, you were using 'cached' data
by your browser to start configuration process which wouldn't get a
response from the AP's from the server when a button was pressed.

Any help??

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

1886. [ntms-hsmm] Lost GUI Access to Node

Yahoo group: DAWG-HSMM
Date: 2010-05-26 00:55:42 UTC
From: John (WB5NFC)
Topic: 1883 Message: 1886

Thanks for the thoughts Rusty and Glen. I should have supplied more information in my first post...

I believe the update was successful. I accessed the GUI (using port 8080) a number of times after the firmware load. I saved changes and rebooted each time. The installation instructions are well done - very clear and precise. I think I did something stupid while I was 'playing' with configuration settings.

I also tried the reset button. First, holding down the button with the power on (although perhaps not a full 30 seconds) and a second time holding the button down and then applying power. No joy either way. I've been wrestling with this for several days now, so both the computer and the router have been recycled several times.

John

[Non-text portions of this message have been removed]

1887. RE: [ntms-hsmm] Maximum Range?

Yahoo group: DAWG-HSMM
Date: 2010-05-26 02:31:25 UTC
From: andrew.macallister@emerson.com
Topic: 1880 Message: 1887

I have been looking for the longest distance that the system will accept, and it is somewhere around 36000 meters. Still looking for more! Any suggestions?

73 de Andy W5ACM
http://www.w5acm.net

From: ntms-hsmm@yahoogroups.com on behalf of Kipton Moravec
Sent: Mon 5/24/2010 10:56 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Maximum Range?

On Tue, 2010-05-25 at 02:28 +0000, W5ACM wrote:
> I have been working with some of my gear here in Houston, but notice that the firmware seems to limit out for the distance setting at 9900 meters. If the distance is set to 0 meters, will it work farther, assuming the proper antennas and power amps are used?
>
> TNX Andy
>
>

I did 10 miles on May 15 for about 5 hours during the Wild Ride bicycle rally.

I set the number to 20000 m and it rounded down a little. But it worked.

I am not aware of a maximum value but I have not tried higher than 20000 because I have not needed to.

Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

Yahoo! Groups Links

[Non-text portions of this message have been removed]

1888. Re: [ntms-hsmm] Lost GUI Access to Node

Yahoo group: DAWG-HSMM
Date: 2010-05-26 04:43:18 UTC
From: Glenn Currie
Topic: 1883 Message: 1888

It is possible that somehow you changed an address on the set up page that is keeping you from getting into the GUI.

I have had to use the TFTP load a few times. You have to try it a few times to get the timing right for it to sync up and load the firmware, but it does work. I have worked with probably well over 100 different WRT54G units, of all the usable model numbers and have reflashed many of these units 5 or 6 times, some even more, so I have seen a lot of failure modes.

One of the problems is that without a lot of test gear, it is very hard to tell exactly what went wrong. If the router seems to still be alive, try plugging your laptop into one of the LAN ports and run a packet sniffer like Wireshark. See if you get assigned an address and see if the address seems to be one that is mentioned in the HSMM-MESH firmware documentation. If you find one that is close, possibly you had a typo when changing an address.

If you see an address in Wireshark, try looking at port :8080 on that address and addresses near that address, changing the lowest octet in the address. You may get lucky and find the GUI port somehow got moved. If you can get back in, try to get to the set up page and click on the button to select default settings and save the values. If that works, you are probably back on track.

If you cannot get back in to the Linksys 192.168.1.1 address, the firmware load worked and you have HSMM-MESH firmware loaded, but misconfigured.

At this point it is worth trying the TFTP load. I have done it several times and it did not take long to get a fresh firmware load with workable settings.

From what you describe seems a configuration problem, not a hardware problem. I have had routers develop hardware problems and that took a long time to track down.

Try the TFTP load and let us know how it goes. That is what I would do at this point.

Good luck.

-Glenn

--- On Tue, 5/25/10, John (WB5NFC) <wb5nfc@...> wrote:

From: John (WB5NFC) <wb5nfc@...>
Subject: [ntms-hsmm] Lost GUI Access to Node
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, May 25, 2010, 7:55 PM

Thanks for the thoughts Rusty and Glen. I should have supplied more information in my first post...

I believe the update was successful. I accessed the GUI (using port 8080) a number of times after the firmware load. I saved changes and rebooted each time. The installation instructions are well done - very clear and precise. I think I did something stupid while I was 'playing' with configuration settings.

I also tried the reset button. First, holding down the button with the power on (although perhaps not a full 30 seconds) and a second time holding the button down and then applying power. No joy either way. I've been wrestling with this for several days now, so both the computer and the router have been recycled several times.

John

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1889. RE: [ntms-hsmm] Maximum Range?

Yahoo group: DAWG-HSMM
Date: 2010-05-26 05:05:30 UTC
From: Glenn Currie
Topic: 1880 Message: 1889

I would urge you to do as much as field testing with the distance parameters and see if you can clearly verify what it seems to do. Quite a few of the settings for the Broadcom chip in the WRT54G are not openly documented. Broadcom does not make a data sheets on their chips to available to most people. So a number of the settings are intelligent guesses and the result of reverse engineering.

I have collected what information I can on the major chips used in many wireless routers and I have no definitive information as to how any distance parameter on the Broadcom chip in the WRT54G works. So the setting may work as assumed, or it may work sort of like assumed, or it may not change anything noticeable, as far as I know.

For some things like setting which antenna does what (which one is TX, which one is RX and diversity mode) could and was directly tested and verified. A number of settings are much harder to test and be sure they are working as expected. One setting might be a "auto" mode. If someone has definitive data from a data sheet or field testing, please share, other hams need this info and it is hard to get good answers.

One reason for making the HSMM-MESH firmware available is to get more users to help test the firmware. We do a lot of testing, to be sure there are no bad bugs, but need help testing some things that either take a lot of time, or special test gear or a test range.

If I have misunderstood your statements or questions, forgive me. I think the comments on verifying, as best you can, settings with field work would be most useful, no mater what firmware you are using. Not all the settings in some of the factory firmware works as advertised.

If you can do some field testing where you can try different settings with radios at a variety of distances, please share you results.

But try to verify the distance parameter is working as expected.

I have made dependable links at 10 miles many times. I have made one link at 15.67 miles and I never adjusted anything to do with a distance setting. In some firmware there was no way to make such an adjustment.

-Glenn

--- On Tue, 5/25/10, andrew.macallister@emerson.com <andrew.macallister@...> wrote:

From: andrew.macallister@emerson.com <andrew.macallister@...>
Subject: RE: [ntms-hsmm] Maximum Range?
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, May 25, 2010, 9:31 PM

I have been looking for the longest distance that the system will accept, and it is somewhere around 36000 meters. Still looking for more! Any suggestions?

73 de Andy W5ACM

http://www.w5acm.net

From: ntms-hsmm@yahoogroups.com on behalf of Kipton Moravec

Sent: Mon 5/24/2010 10:56 PM

To: ntms-hsmm@yahoogroups.com

Subject: Re: [ntms-hsmm] Maximum Range?

On Tue, 2010-05-25 at 02:28 +0000, W5ACM wrote:

> I have been working with some of my gear here in Houston, but notice that the firmware seems to limit out for the distance setting at 9900 meters. If the distance is set to 0 meters, will it work farther, assuming the proper antennas and power amps are used?

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--Mark Twain

Yahoo! Groups Links

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1890. RE: RE: [ntms-hsmm] Maximum Range?

Yahoo group: DAWG-HSMM
Date: 2010-05-26 13:47:07 UTC
From: andrew.macallister@emerson.com
Topic: 1880 Message: 1890

Glenn,

Thanks! Good points! It has been decades since I did any "code work", so I am happy to simply test, ask, report, etc. Back in "the day", I was using X.25 over various systems and paths ranging from a few miles via UHF radio to geosat ops. You can imagine that things like the number of packets in flight without ack and packet length were key to making the geosat configuration usable.

We will be trying tests on Field Day with a tethered balloon carrying a HSMM-MESH WRT54GL in Brookshire, and on August 21st with a free-flying balloon to as high as 100K feet from Wharton with lots of ham things. Perhaps we will learn enough on Field Day to determine if this communications medium is useful for the BIG flight in August. We have done voice repeaters, data collection, APRS, ATV etc. via balloons since 1990, but we have always wanted to do WiFi...

So here we are!

The horizon at 100K feet is 390 miles (628K meters) out...

Thanks again!

Andy W5ACM
http://www.w5acm.net

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Glenn Currie
Sent: Wednesday, May 26, 2010 12:06 AM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Maximum Range?

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Yahoo! Groups Links

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Yahoo! Groups Links

1891. RE: RE: [ntms-hsmm] Maximum Range?

Yahoo group: DAWG-HSMM
Date: 2010-05-26 15:23:54 UTC
From: Glenn Currie
Topic: 1880 Message: 1891

Sounds like a great project. Please share your results and findings. Some of us have been working on HSMM projects for about 8 years now. Once we got HSMM-MESH to where it did all we needed for a local hospital network, we decided to turn the code loose and open up development and testing for whatever people wanted to try.

On our test adventures, we try to keep as many types of logging going as possible. This includes running WireShark on the link so we can capture every packet that is sent. After the experiment the logs can be shared and observed actions can be matched up with the logs. For a few things you can easily figure out what happened, but for many things, the logs provide a window on what occurred. You probably have some sort of testing figured out, but just for consideration, we often start a "ping" to several nodes in the mesh and as we go mobile, we have the packet sniffer going. The pings and related delays, success for failures show up in the log.

We also use IP cameras and you can see in the logs were the link is solid then gets ragged then gets better again, in the log. Just like telemetry from space probes, the logs can be studied long after the experiment was run. The pings usually present a small load, where as the IP camera provides a steady flood of data.

NetStumbler or better Kismet, records signal strength. As your mesh nodes ascends, you should be able to go back in the NetStumbler or Kismet logs and see what happens with the signal. When you find the limits of your link, you may see where the signal strength was OK but packets start to get dropped at an ever increasing rate. By comparing signal strength vs. packet loss, you might be able to catch a situation where you had enough signal but a lot of packets got dropped, and this would give a clue that some of the software settings like distance / range are making themselves apparent.

Interesting experiment! Keep us posted.

-Glenn

--- On Wed, 5/26/10, andrew.macallister@... <andrew.macallister@emerson.com> wrote:

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Subject: RE: RE: [ntms-hsmm] Maximum Range?
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, May 26, 2010, 8:47 AM

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Yahoo! Groups Links

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1892. Re: [ntms-hsmm] Maximum Range?

Yahoo group: DAWG-HSMM
Date: 2010-06-24 21:42:34 UTC
From: ag5rs
Topic: 1880 Message: 1892

I am working with Andy and the group in this experiment. I really like your idea of using Kismet and WireShark and will set that up this weekend when we test fly.

I have a different question related to the Ubiquiti Picostation 2 HP that I have. I notice that I can flash it with DD-WRT successfully, but only if I buy a license. Does HSMM-Mesh completely wipe things and reflash or just modify what is there (incremental install)?

Ubiquiti has instructions for putting ROBIN (OpenMesh) on the Pico so I expect there must be some level of compatibility.

Has anyone tried HSMM-Mesh on the Ubiquity products (and gotten it to work)?

My persistence for the Pico is because it has +29dBm out and weighs less than 100g.

Thanks in advance for any help.

Ron, AG5RS

--- In ntms-hsmm@yahoogroups.com, Glenn Currie <kd5mfw_7@...> wrote:
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1893. Re: [ntms-hsmm] Maximum Range?

Yahoo group: DAWG-HSMM
Date: 2010-06-24 22:18:01 UTC
From: Glenn Currie
Topic: 1880 Message: 1893

Ron,

I do not personally know of anyone that has loaded the HSMM-MESH firmware on a Ubiquiti product. I have some of their routerboards and modular 802.11a and 802.11b radios. I have not had time to try loading HSMM-MESH firmware.

So I am not quite sure if they are using some sort of two stage load or whatever. Ubiquiti says they ship open-wrt firmware with the routerboard. HSMM-MESH started out with the Kamikazi load of open-wrt so I am sure HSMM-MESH will run on that board. Open-wrt has a modular way to load plug-in packages like OLSR, network time protocol and several others. So this is a bit of a two stage load - load open-wrt or HSMM-MESH, then plug in packages can be loaded in without reloading the firmware.

Such plug ins are stored as files on a simulated file system in the router and this makes them modular. So you can change plugins without having to recompile and load a monolythhic fimware image.

As for the exact load sequence and memory map of the Ubiquiti Picostation, I really have no good advice. Given time we might be able to figure something out. But I have nothing definitive at this time. I have not worked with the device.

If I had to guess, some work is needed and the HSMM-MESH firmware would not cleanly load on top or side by side with their product that requiers a license. And I do not know how open they would be about providing an interface API. All good questions with no good answers at this time.

There are people charging a fortune for mesh nodes while they can and most are not open to telling what they have inside. The routerboard can be made to work, I am sure, but I need time to work with it. The other products are more compact, probably have less memory but I can see the appeal - they are real small.

Good luck and keep me posted as to what you find out.

-Glenn

--- On Thu, 6/24/10, ag5rs <rls@...> wrote:

From: ag5rs <rls@...>
Subject: Re: [ntms-hsmm] Maximum Range?
To: ntms-hsmm@yahoogroups.com
Date: Thursday, June 24, 2010, 4:42 PM

I am working with Andy and the group in this experiment. I really like your idea of using Kismet and WireShark and will set that up this weekend when we test fly.

I have a different question related to the Ubiquiti Picostation 2 HP that I have. I notice that I can flash it with DD-WRT successfully, but only if I buy a license. Does HSMM-Mesh completely wipe things and reflash or just modify what is there (incremental install)?

Ubiquiti has instructions for putting ROBIN (OpenMesh) on the Pico so I expect there must be some level of compatibility.

Has anyone tried HSMM-Mesh on the Ubiquity products (and gotten it to work)?

My persistence for the Pico is because it has +29dBm out and weighs less than 100g.

Thanks in advance for any help.

Ron, AG5RS

--- In ntms-hsmm@yahoogroups.com, Glenn Currie <kd5mfw_7@...> wrote:

>

> Sounds like a great project. Please share your results and findings.Â Some of us have been working on HSMM projects for about 8 years now.Â Once we got HSMM-MESH to where it did all we needed for a local hospital network, we decided to turn the code loose and open up development and testing for whatever people wanted to try.

>

> On our test adventures, we try to keep as many types of logging going as possible.Â This includes running WireShark on the link so we can capture every packet that is sent.Â After the experiment the logs can be shared and observed actions can be matched up with the logs.Â For a few things you can easily figure out what happened, but for many things, the logs provide a window on what occurred.Â Â You probably have some sort of testing figured out, but just for consideration, we often start a "ping" to several nodes in the mesh and as we go mobile, we have the packet sniffer going.Â The pings and related delays, success for failures show up in the log.

>

> We also use IP cameras and you can see in the logs were the link is solid then gets ragged then gets better again, in the log.Â Just like telemetry from space probes, the logs can be studied long after the experiment was run.Â The pings usually present a small load, where as the IP camera provides a steady flood of data.

>

> NetStumbler or better Kismet, records signal strength.Â As your mesh nodes ascends, you should be able to go back in the NetStumbler or Kismet logs and see what happens with the signal.Â When you find the limits of your link, you may see where the signal strength was OK but packets start to get dropped at an ever increasing rate.Â By comparing signal strength vs. packet loss, you might be able to catch a situation where you had enough signal but a lot of packets got dropped, and this would give a clue that some of the software settings like distance / range are making themselves apparent.

>

> Interesting experiment! Keep us posted.

>

> -Glenn

>

> --- On Wed, 5/26/10, andrew.macallister@... <andrew.macallister@...> wrote:

>

> From: andrew.macallister@... <andrew.macallister@...>

> Subject: RE: RE: [ntms-hsmm] Maximum Range?

> To: ntms-hsmm@yahoogroups.com

> Date: Wednesday, May 26, 2010, 8:47 AM

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> Glenn,

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> Thanks! Good points! It has been decades since I did any "code work", so I am happy to simply test, ask, report, etc. Back in "the day", I was using X.25 over various systems and

paths ranging from a few miles via UHF radio to geosat ops. You can imagine that things like the number of packets in flight without ack and packet length were key to making the geosat configuration usable.

>

>

>

> We will be trying tests on Field Day with a tethered balloon carrying a HSMM-MESH WRT54GL in Brookshire, and on August 21st with a free-flying balloon to as high as 100K feet from Wharton with lots of ham things. Perhaps we will learn enough on Field Day to determine if this communications medium is useful for the BIG flight in August. We have done voice repeaters, data collection, APRS, ATV etc. via balloons since 1990, but we have always wanted to do WiFi...

>

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> So here we are!

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> The horizon at 100K feet is 390 miles (628K meters) out...

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> Thanks again!

>

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>

> Andy W5ACM

>

> http://www.w5acm.net

>

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>

> -----Original Message-----

>

> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Glenn Currie

>

> Sent: Wednesday, May 26, 2010 12:06 AM

>

> To: ntms-hsmm@yahoogroups.com

>

> Subject: RE: [ntms-hsmm] Maximum Range?

>

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>

> I would urge you to do as much as field testing with the distance parameters and see if you can clearly verify what it seems to do.Â Quite a few of the settings for the Broadcom chip in the WRT54G are not openly documented.Â Broadcom does not make a data sheets on their chips to available to most people.Â So a number of the settings are intelligent guesses and the result of reverse engineering.

>

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>

> I have collected what information I can on the major chips used in many wireless routers and I have no definitive information as to how any distance parameter on the Broadcom chip in the WRT54G works.Â So the setting may work as assumed, or it may work sort of like assumed, or it may not change anything noticeable, as far as I know.Â

>

>

>

> For some things like setting which antenna does what (which one is TX, which one is RX and diversity mode) could and was directly tested and verified.Â A number of settings are much harder to test and be sure they are working as expected.Â One setting might be a

>

> "auto" mode.Â If someone has definitive data from a data sheet or field testing, please share, other hams need this info and it is hard to get good answers.

>

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>

> One reason for making the HSMM-MESH firmware available is to get more users to help test the firmware.Â We do a lot of testing, to be sure there are no bad bugs, but need help testing some things that either take a lot of time, or special test gear or a test range.

>

>

>

> If I have misunderstood your statements or questions, forgive me.Â I think the comments on verifying, as best you can, settings with field work would be most useful, no mater what firmware you are using.Â Â Not all the settings in some of the factory firmware works as advertised.

>

>

>

> If you can do some field testing where you can try different settings with radios at a variety of distances, please share you results.

>

>

>

> But try to verify the distance parameter is working as expected.

>

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> I have made dependable links at 10 miles many times.Â I have made one link at 15.67 miles and I never adjusted anything to do with a distance setting.Â In some firmware there was no way to make such an adjustment.

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> -Glenn

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> I have been looking for the longest distance that the system will accept, and it is somewhere around 36000 meters. Still looking for more! Any suggestions?

>

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> 73 de Andy W5ACM

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> http://www.w5acm.net

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> From: ntms-hsmm@yahoogroups.com on behalf of Kipton Moravec

>

>

>

> Sent: Mon 5/24/2010 10:56 PM

>

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>

> To: ntms-hsmm@yahoogroups.com

>

>

>

> Subject: Re: [ntms-hsmm] Maximum Range?

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> On Tue, 2010-05-25 at 02:28 +0000, W5ACM wrote:

>

>

>

> > I have been working with some of my gear here in Houston, but notice that the firmware seems to limit out for the distance setting at 9900 meters. If the distance is set to 0 meters, will it work farther, assuming the proper antennas and power amps are used?

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> > TNX Andy

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> I did 10 miles on May 15 for about 5 hours during the Wild Ride bicycle

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> rally.

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> I set the number to 20000 m and it rounded down a little. But it worked.

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> I am not aware of a maximum value but I have not tried higher than 20000

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> because I have not needed to.

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> Kip

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> Kipton Moravec AE5IB .- . ... -...

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> "Always do right; this will gratify some people and astonish the rest."

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> --Mark Twain

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1894. Final Call for Papers & Speakers at 2010 ARRL/TAPR Digital Communications Conference (DCC)

Yahoo group: DAWG-HSMM
Date: 2010-07-09 18:58:17 UTC
From: Mark Thompson
Topic: 1894 Message: 1894

Speakers are encouraged to make presentations at the Digital Communications Conference (DCC).

Presentations can be made at the DCC even if you don't submit a technical paper.

Speakers may be accepted after Call for Papers has closed, but TAPR needs to be aware
in advance of your interest to speak at the DCC.

Final Call for Papers--2010 ARRL/TAPR Digital Communications Conference
Posted by: "Ford, Steve, WB8IMY" sford@... wb8imy
Date: Thu Jul 1, 2010 1:29 pm ((PDT))

Technical papers are solicited for presentation at the 29th Annual ARRL and TAPR Digital Communications Conference to be held September 24-26, 2010 near Portland, Oregon. These papers will also be published in the Conference Proceedings (you do NOT need to attend the conference to have your paper included in the Proceedings). The submission deadline is July 31, 2010. Please send papers to:

Maty Weinberg
ARRL
225 Main St
Newington, CT 06111

or you can make your submission via e-mail to: maty@...

Papers will be published exactly as submitted and authors will retain all rights.

73 . . . Steve, WB8IMY
ARRL

[Non-text portions of this message have been removed]

1895. Fwd: Central States VHF Society Conference, July 22 - 25, St. Louis, MO

Yahoo group: DAWG-HSMM
Date: 2010-07-10 17:50:11 UTC
From: Mark Thompson
Topic: 1895 Message: 1895

-----Original Message-----
From: Ken Boston [mailto:kboston@...]
Sent: Wednesday, June 09, 2010 5:49 PM
To: jbest@...; w9awe@...; k9tms@...; info@...;
novaraw9rv@...; w9va@...; boardmembers@...; n9wro@...
Subject: VHF conference, please post to members

Hello to all Radio Amateurs;

I just want to extend an invitation to you to come to St Louis, MO for the 44rd annual Central States VHF society's annual conference. If you have any interest in the VHF and UHF weak signal activities, this gathering is for you. This year the conference is being held at the Doubletree Hotel St Louis at Westport, near I-270 and MO 364, on the dates of July 22 through the 25th.

The conference starts with registration on Thursday (7/22) evening, with a social gathering, and registration extends through Friday, July 23, with antenna measuring, preamp measuring and talks/seminars also scheduled throughout the day. On Saturday, the seminars continue, and a banquet and prize drawing are featured that night. Other features include a dealer display, of VHF/UHF goodies, flea market, family program with tours of many attractions in and around St Louis, rover and antenna displays, and lots of socializing with familiar voices, which allows you to meet many of those with whom you have been QSOing with.

Much more detailed information on the 44th conference can be found at the website; http://www.csvhfs.org, including links to the hotel for those who plan to stay the duration, and a link to an online registration page for conference registration. Many in the St Louis area may opt just to attend for the day on Saturday, but come and join us for the entire weekend if you can.

For more information, you can contact me here, at the address in the header, or please send an email to Ron Ochu, KO0Z, the conference host. He can be reached at ko0Z{at}arrl.net

Thanks for considering, hope to see you in St Louis!

Ken Boston W9GA
Promotions; Central States VHF society

-----Original Message-----
From: John Germanos <jgermanos@...>
To:
Sent: Fri, Jun 4, 2010 7:34 am
Subject: Central States VHF Society Conference

The 44th Annual Central States VHF Society Conference will be in St. Louis, MO this year July 22nd thru 24th.
You can get all the details of the Conference and Register at the following Link. http://www.csvhfs.org/conference/index.html 73 John WB9PNU Vice President CSVHF Society

[Non-text portions of this message have been removed]

1896. FW: Fwd: Central States VHF Society Conference, July 22 - 25, St. Louis,

Yahoo group: DAWG-HSMM
Date: 2010-07-11 16:21:05 UTC
From: WILLIAM WALLACE
Topic: 1896 Message: 1896

From: WILLIAM H WALLACE [mailto:bill@...]
Sent: Sunday, July 11, 2010 9:54 AM
To: ntms-hsmm@yahoogroups.com
Subject: Re:Fwd: Central States VHF Society Conference, July 22 - 25, St. Louis,

I am planning to attend the Central States VHF Society Conference since it is here in St. Louis. Is anyone coming from the North Texas High Speed Multimedia group. I would like to get together with anyone that is coming up as I have been putting together a network here in St. Louis and maybe we could have lunch or dinner and discuss our mutual interests.l

William H. Wallace KC0TGY

Attorney at Law

1863 Sonny Dr.

Arnold, Mo. 63010

314-630-7796

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addressee(s) and may contain information that is legally privileged, confidential, or both. If you are not the intended recipient of this e-mail, you are notified that any dissemination, distribution or copying of this e-mail and any attachments is strictly prohibited. If you have received this e-mail in error, please immediately notify me by return e-mail and permanently delete the original and any copy of this e-mail message or attachment and any printed originals and copies.

[Non-text portions of this message have been removed]

1897. Questions about multiple HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2010-07-18 22:24:54 UTC
From: Todd Caldwell
Topic: 1862 Message: 1897

Hello everyone,

I'm looking at an installation that would require 3 nodes, each with a 120 degree sector antenna to get full omni coverage. An additional narrow beam point-to- point link might also be desirable. All 4 nodes would be within perhaps 30 feet of each other, but the structure precludes using a single omni. This is a nice high location, so considerable range may be possible.

For these nodes to communicate with each other, can I connect the nodes together via ethernet ? WAN or LAN ports if so ?

The overall intent here is for this installation to be a reasonably wide area relay node for ham and emergency data use.

Info will be appreciated.

Thanks,

Todd Caldwell - K5SLR

1898. Re:Questions about multiple HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2010-07-19 13:26:35 UTC
From: WILLIAM WALLACE
Topic: 1862 Message: 1898

I have the exact same question. I guess as we try to plan a network for this function we run into a situation where we have a need for a relay point that needs more than an omni antenna to tie our other locations together.

Bill Wallace KC0TGY

[Non-text portions of this message have been removed]

1899. Re: [ntms-hsmm] Questions about multiple HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2010-07-19 13:49:40 UTC
From: Kipton Moravec
Topic: 1862 Message: 1899

I have not played with it yet, but it was supposed to be working in version 3.3. It was one of the setups.

The nodes are connected by ethernet. It allows us to come in one router on say Channel 1, and connect to another router by ethernet cable which can use another channel or another SSID.

Kip

On Sun, 2010-07-18 at 17:24 -0500, Todd Caldwell wrote:
> Hello everyone,
>
> I'm looking at an installation that would require 3 nodes, each with
> a 120 degree sector antenna to get full omni coverage. An additional
> narrow beam point-to- point link might also be desirable. All 4 nodes
> would be within perhaps 30 feet of each other, but the structure
> precludes using a single omni. This is a nice high location, so
> considerable range may be possible.
>
> For these nodes to communicate with each other, can I connect the
> nodes together via ethernet ? WAN or LAN ports if so ?
>
> The overall intent here is for this installation to be a reasonably
> wide area relay node for ham and emergency data use.
>
> Info will be appreciated.
>
> Thanks,
>
> Todd Caldwell - K5SLR
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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1900. Re: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2010-07-19 21:21:49 UTC
From: Gerald Pelnar
Topic: 1862 Message: 1900

For nodes that didn't have a good signal between omni's, I planned to use 2 antennas on a node. An omni for local coverage and a directional to get a better signal to another node. As far as I know there is no reason not to have 2 antennas on a node. With diversity RX, the radio should transmit any replies on the antenna it received the request on.

Gerald Pelnar WD0FYF

----- Original Message -----
From: "WILLIAM WALLACE" <bill@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Monday, July 19, 2010 8:26 AM
Subject: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes

>I have the exact same question. I guess as we try to plan a network for
> this function we run into a situation where we have a need for a relay
> point
> that needs more than an omni antenna to tie our other locations together.
>
> Bill Wallace KC0TGY
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> [Non-text portions of this message have been removed]
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1901. AMSAT 2010 Space Symposium Call for Papers

Yahoo group: DAWG-HSMM
Date: 2010-07-20 04:38:13 UTC
From: Mark Thompson
Topic: 1901 Message: 1901

AMSAT 2010 Space Symposium Call for Papers

The September 1 deadline of the call for papers for the 2010 AMSAT Space Symposium and Annual Meeting is rapidly approaching! So far the Proceedings crew has received two abstracts for papers - thank you!

The abstract for your paper does not require any special format. Simply send an e-mail to the Proceedings Editor, K9JKM with the basic information: Author Name, Callsign, and a few sentences that describe your proposed topic. I'll be looking forward to receiving your abstracts in my in-box at k9jkm@....

The Symposium Committee invites proposals for:

+ Papers for publication in the Proceedings

+ Symposium Presentations

+ Poster Presentations

+ Equipment and Operating Demonstrations

These can be on any topic of interest to the amateur satellite community. We request a tentative title of your presentation as soon as possible, with final copy submitted by September 1, 2010 for inclusion in the printed proceedings.

To help you prepare your paper the Symposium Committee has posted an author's guide on the AMSAT.org web page:
http://tinyurl.com/2djjnmx

The 2010 AMSAT Space Symposium and Annual Meeting will be held October 8 - 10 at the Chicago/Elk Grove Holiday Inn which is near O'Hare Airport.

73,
JoAnne K9JKM
2010 Symposium Proceedings Editor

[Non-text portions of this message have been removed]

1902. Re: [ntms-hsmm] Questions about multiple HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2010-07-20 05:04:11 UTC
From: Glenn Currie
Topic: 1862 Message: 1902

I have forwarded the question regarding the use of multiple mesh nodes to some of the HSMM-MESH developers.

There are multiple ways to connect the nodes. Please include as much information regarding the site as possible. Do not assume the solution, just describe the location as clearly as possible and your goal(s) as clearly as possible. I am confident some solutions are not imediately obvious. The structure that was to be used to mount the mesh nodes on was now described in detail.

There are probably multiple solutions. With more information we can home in on a more optimized one.

-Glenn
kd5mfw@...

--- On Mon, 7/19/10, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: Re: [ntms-hsmm] Questions about multiple HSMM-MESH nodes
To: ntms-hsmm@yahoogroups.com
Date: Monday, July 19, 2010, 8:49 AM

I have not played with it yet, but it was supposed to be working in

version 3.3. It was one of the setups.

The nodes are connected by ethernet. It allows us to come in one router

on say Channel 1, and connect to another router by ethernet cable which

can use another channel or another SSID.

Kip

On Sun, 2010-07-18 at 17:24 -0500, Todd Caldwell wrote:

> Hello everyone,

>

> I'm looking at an installation that would require 3 nodes, each with

> a 120 degree sector antenna to get full omni coverage. An additional

> narrow beam point-to- point link might also be desirable. All 4 nodes

> would be within perhaps 30 feet of each other, but the structure

> precludes using a single omni. This is a nice high location, so

> considerable range may be possible.

>

> For these nodes to communicate with each other, can I connect the

> nodes together via ethernet ? WAN or LAN ports if so ?

>

> The overall intent here is for this installation to be a reasonably

> wide area relay node for ham and emergency data use.

>

> Info will be appreciated.

>

> Thanks,

>

> Todd Caldwell - K5SLR

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> Yahoo! Groups Links

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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."

--Mark Twain

[Non-text portions of this message have been removed]

1903. Re:Questions about multiple HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2010-07-20 14:05:07 UTC
From: Steve W3AHL
Topic: 1862 Message: 1903

The dual antenna ports are intended only for spatial diversity of two similar antennas mounted 1-4 wavelengths apart (5-20" at 2.4 GHz)covering the same area. The diversity logic selects the antenna with the best signal quality (lowest group delay) based upon multipath interactions.

Using antennas with different characteristics to cover different areas may seem to work in initial testing, but will result in unusable links when the traffic picks up a little.

Refer to:
http://www.cisco.com/en/US/tech/tk722/tk809/technologies_tech_note09186a008019f646.shtml

The golf course example toward the end addresses why your proposal doesn't work.

Steve, W3AHL

--- In ntms-hsmm@yahoogroups.com, "Gerald Pelnar" <wd0fyf@...> wrote:
>
> For nodes that didn't have a good signal between omni's, I planned to use 2
> antennas on a node. An omni for local coverage and a directional to get a
> better signal to another node. As far as I know there is no reason not to
> have 2 antennas on a node. With diversity RX, the radio should transmit any
> replies on the antenna it received the request on.
>
> Gerald Pelnar WD0FYF
>
>
> ----- Original Message -----
> From: "WILLIAM WALLACE" <bill@...>
> To: <ntms-hsmm@yahoogroups.com>
> Sent: Monday, July 19, 2010 8:26 AM
> Subject: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes
>
>
> >I have the exact same question. I guess as we try to plan a network for
> > this function we run into a situation where we have a need for a relay
> > point
> > that needs more than an omni antenna to tie our other locations together.
> >
> > Bill Wallace KC0TGY
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1904. Re: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2010-07-20 15:09:46 UTC
From: Kipton Moravec
Topic: 1862 Message: 1904

In practice the guys in Austin have not had any problems with using different antennas on the two ports of a WRT54G. I questioned them on this also, and they assure me that in practice it works.

A lot of times they use a omni for local mesh connections and a directional (most often horizontal polarity) for long distance. I have not tested this but believe the group in Austin know what they are talking about. It does work and they have not seen any bad effects.

Kip

On Tue, 2010-07-20 at 14:05 +0000, Steve W3AHL wrote:
> The dual antenna ports are intended only for spatial diversity of two similar antennas mounted 1-4 wavelengths apart (5-20" at 2.4 GHz)covering the same area. The diversity logic selects the antenna with the best signal quality (lowest group delay) based upon multipath interactions.
>
> Using antennas with different characteristics to cover different areas may seem to work in initial testing, but will result in unusable links when the traffic picks up a little.
>
> Refer to:
http://www.cisco.com/en/US/tech/tk722/tk809/technologies_tech_note09186a008019f646.shtml
>
> The golf course example toward the end addresses why your proposal doesn't work.
>
> Steve, W3AHL
>
> --- In ntms-hsmm@yahoogroups.com, "Gerald Pelnar" <wd0fyf@...> wrote:
> >
> > For nodes that didn't have a good signal between omni's, I planned to use 2
> > antennas on a node. An omni for local coverage and a directional to get a
> > better signal to another node. As far as I know there is no reason not to
> > have 2 antennas on a node. With diversity RX, the radio should transmit any
> > replies on the antenna it received the request on.
> >
> > Gerald Pelnar WD0FYF
> >
> >
> > ----- Original Message -----
> > From: "WILLIAM WALLACE" <bill@...>
> > To: <ntms-hsmm@yahoogroups.com>
> > Sent: Monday, July 19, 2010 8:26 AM
> > Subject: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes
> >
> >
> > >I have the exact same question. I guess as we try to plan a network for

> > > this function we run into a situation where we have a need for a relay
> > > point
> > > that needs more than an omni antenna to tie our other locations together.
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> > > Bill Wallace KC0TGY
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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1905. Re: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2010-07-20 18:07:56 UTC
From: Glenn Currie
Topic: 1862 Message: 1905

Thanks for all the info and interest. Here is some info to consider. I hope it is helpful.

Please get some of this gear and get out in the field. It is fun and there is a HUGE amount to learn and share with others!

I have found that mixed antennas, linking different nodes does work. I am also sure the design application notes provided, contain useful information. Most of the things we are doing with the WRT54G are not what it was designed to do and nobody provides detailed information for our applications.

Broadcom, who makes the main chip inside the WRT54G does not make detailed information available to users, just major vendors. The vendors provide information for the products they design, and how they intend for them to be used.

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So we have a situation were the vendors supply some interesting products but very limited information. We have little choice but to experiment and share findings.

Distance, throughput, environmental conditions vary widely and we are not using the equipment in a living room or office for the most part, so we are on our own. This is radio and the analog physics apply - and they are complex if you want to get deep into the details. We cannot expect maximum throughput in all cases. There are always trade offs and due to the complexity of the radio, not all the trade offs are immediately apparent, I assure you.

Also, the HSMM-MESH(tm) developers main interest is quickly deployed emergency communications. If we can get a link that is usable, it will beat a 1200 baud packet link in speed. So we declare victory in such cases and move on. We do not have definitive information for every possible use of the firmware and hardware. That is one of the main reasons we released the firmware - to get help in discovering what will and will not work.

No system can be optimized for all possible cases. So if you trade off some throughput for a particular configuration, does that work well enough for your purposes? If so declare victory. If not, do some more field work. Try placing multiple nodes in various locations and work towards an acceptable solution. There are usually multiple ways any particular site can be configured. Your first idea might not be what ends up working best. The radios can be set to do antenna diversity, and they do so many things to maintain a link it would fill a book to try to describe. (See the book by Gast on 802.11 - it is a thick book for a good reason - lots and lots of details - tons of them). We all value simple answers and rules of thumb, but these radios and antenna systems are complex by their nature. You

should not expect to know everything about how to use them without some effort. Understand the basics then try some field work when the
thick books make you sleepy. You can be safe and not not bother other people easily enough. But digital microwave broadband communications is not a simple topic.

So what is going on with the radio is very complex, self adapting, not documented in detail by the maker, and would require a lab full of very expensive test gear to fully track and understand. Few hams have all the test gear to fully instrument a WRT54G and even attempt to fully describe everything that it is doing in a particular application. So we trade information and see what works and what does not work.

Unmatched antennas on a mesh node do work, and I am confident that in most, possibly all cases it cuts throughput. But if you do not have enough gain and directivity on a link to make the trip, your throughput is zero. So I see no conflict in the information, just more pieces of a very complex analog puzzle. One should not expect maxim throughput in all cases in all places. All we can do is to share our experiences and figure out what will work for a particular situation.

I have been working with the WRT54G and similar device for several years. I have a pretty good feel for what works consistently around where I live in the Austin area. I wish I had all the test gear to do definitive testing and measuring of everything. That is not going to happen. I really encourage you to do field work as I have found a lot of what works and does not work, is counter intuitive. The theory is great, but without tons of technical information on the hardware, you really have to experiment. You cannot sit at a desk and fully design and model a system then just go set it up and expect it to work every time. We simply do not have enough information to feed into a model to do that. You would need a detailed site survey, for one thing, and somebody has to go out in the field to do that work for any model to be of use.

I am happy to share what I have learned in about 8 years of field work. I cannot stress enough that some of how the radios consistently work, seems counter intuitive, at least to me. So if I had not done the field work myself, and just did thought experiments, I would have been dead wrong on a number of important issues. So collect all the good info you can, work out a plan and give it a try. Sometimes it just works, sometimes it does not. I have found more links worked than I would have guessed when I first started.

73's

-Glenn

Examples:

The 2.4 GHz band is full. Yes it is and we still consistently, at will do 10 mile links across Austin. Don't sit on the couch and think that it is not worth trying.

Slap on a big RF amp before you even try a link, it has to make things better.
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You MUST have good sites. If you do not have Line of Sight, then an amp is not usually going to do any good unless you can burn a hole in obstructions to obtain a line of sight path.

Not all locations will work. There can be bad interference that causes problems. This is true no mater how expensive your equipment or how much you would like the link to work.

So the make your best guess, collect your gear and get out in the field and try stuff.

--- On Tue, 7/20/10, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: Re: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, July 20, 2010, 10:09 AM

In practice the guys in Austin have not had any problems with using

different antennas on the two ports of a WRT54G. I questioned them on

this also, and they assure me that in practice it works.

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directional (most often horizontal polarity) for long distance. I have

not tested this but believe the group in Austin know what they are

talking about. It does work and they have not seen any bad effects.

Kip

On Tue, 2010-07-20 at 14:05 +0000, Steve W3AHL wrote:

> The dual antenna ports are intended only for spatial diversity of two similar antennas mounted 1-4 wavelengths apart (5-20" at 2.4 GHz)covering the same area. The diversity logic selects the antenna with the best signal quality (lowest group delay) based upon multipath interactions.

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> Using antennas with different characteristics to cover different areas may seem to work in initial testing, but will result in unusable links when the traffic picks up a little.

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> Refer to:
http://www.cisco.com/en/US/tech/tk722/tk809/technologies_tech_note09186a008019f646.shtml

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> The golf course example toward the end addresses why your proposal doesn't work.

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> Steve, W3AHL

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> --- In ntms-hsmm@yahoogroups.com, "Gerald Pelnar" <wd0fyf@...> wrote:

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> >

> > Gerald Pelnar WD0FYF

> >

> >

> > ----- Original Message -----

> > From: "WILLIAM WALLACE" <bill@...>

> > To: <ntms-hsmm@yahoogroups.com>

> > Sent: Monday, July 19, 2010 8:26 AM

> > Subject: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes

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> > > Yahoo! Groups Links

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1906. Re:Questions about multiple HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2010-07-20 20:27:13 UTC
From: Steve W3AHL
Topic: 1862 Message: 1906

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Throwing things together to see what works has its place. But if the goal is to develop a backup data network for served agencies, following the manufacturers' specifications is a good thing, unless you understand why the constraints don't apply to this specific application.

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The customer's "network engineers" tested it and declared it good. But then spent months trying to solve poor throughput, dropped connections and poor roaming in the freight yard as the number of clients increased.

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Using the diversity reception as intended will do much to enhance long term link stability. If you need to cover multiple areas, do it right and add a second AP with the right antennas for that link, if you are doing this for a real network and not just out to have fun.

Steve, W3AHL

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> To: ntms-hsmm@yahoogroups.com
> Date: Tuesday, July 20, 2010, 10:09 AM
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> > > To: <ntms-hsmm@yahoogroups.com>
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> > > Sent: Monday, July 19, 2010 8:26 AM
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1907. RE: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2010-07-21 01:18:37 UTC
From: Dave
Topic: 1862 Message: 1907

Following up on the mention of 'testing limits' I was wondering if anyone is using HSMM and Asterisk together in an Ecomm environment?

Dave Mynatt
/=====================================/
http://sciencecenter.no-ip.org
SID ID #S-0258
APRS Tier II Server @ http://pueblo.aprs2.net:14501
10 meter CW Beacon @ 28.2345 Mhz
Meteor Camera Site #51: LAT: 38° 21' 49'' N and LON: 104° 53' 5'' W
Echolink Server Node: 473082 @147.480Mhz Simplex KA0SWT-L
LAT: 38.15.49N and LON: 104.36.48 W Alt: 1460m
// DM78qg // KA0SWT//1951 Willys Jeep Truck//
http://173.14.27.81/xampp/truck/truck-rebuild.htm
/++++++++++++++++++++++++++++++++++/

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Steve W3AHL
Sent: Tuesday, July 20, 2010 14:27
To: ntms-hsmm@yahoogroups.com
Subject: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes

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> Examples:
>
> The 2.4 GHz band is full.Â Yes it is and we still consistently, at will do 10 mile links across Austin.Â Don't sit on the couch and think that it is not worth trying.
>
> Slap on a big RF amp before you even try a link, it has to make things better.
> Nope.Â We do our 10 mile links with simply good antennas on stock WRT54G hardware.
> You MUST have good sites.Â If you do not have Line of Sight, then an amp is not usually going to do any good unless you can burn a hole in obstructions to obtain a line of sight path.
>
> Not all locations will work.Â There can be bad interference that causes problems.Â This is true no mater how expensive your equipment or how much you would like the link to work.
>
>
> So the make your best guess, collect your gear and get out in the field and try stuff.
>
> --- On Tue, 7/20/10, Kipton Moravec <kip@...> wrote:
>
> From: Kipton Moravec <kip@...>
> Subject: Re: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes
> To: ntms-hsmm@yahoogroups.com
> Date: Tuesday, July 20, 2010, 10:09 AM
>
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> Â
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>
> In practice the guys in Austin have not had any problems with
> using
>
> different antennas on the two ports of a WRT54G. I questioned them on
>
> this also, and they assure me that in practice it works.
>
>
>
> A lot of times they use a omni for local mesh connections and a
>
> directional (most often horizontal polarity) for long distance. I have
>
> not tested this but believe the group in Austin know what they are
>
> talking about. It does work and they have not seen any bad effects.
>
>
>
> Kip
>
>
>
> On Tue, 2010-07-20 at 14:05 +0000, Steve W3AHL wrote:
>
> > The dual antenna ports are intended only for spatial diversity of two
similar antennas mounted 1-4 wavelengths apart (5-20" at 2.4 GHz)covering
the same area. The diversity logic selects the antenna with the best signal
quality (lowest group delay) based upon multipath interactions.
>
> >
>
> > Using antennas with different characteristics to cover different areas
may seem to work in initial testing, but will result in unusable links when
the traffic picks up a little.
>
> >
>
> > Refer to:

> > http://www.cisco.com/en/US/tech/tk722/tk809/technologies_tech_note09
> > 186a008019f646.shtml
>
> >
>
> > The golf course example toward the end addresses why your proposal
doesn't work.
>
> >
>
> > Steve, W3AHL
>
> >
>
> > --- In ntms-hsmm@yahoogroups.com, "Gerald Pelnar" <wd0fyf@> wrote:
>
> > >
>
> > > For nodes that didn't have a good signal between omni's, I planned
> > > to use 2
>
> > > antennas on a node. An omni for local coverage and a directional
> > > to get a
>
> > > better signal to another node. As far as I know there is no
> > > reason not to
>
> > > have 2 antennas on a node. With diversity RX, the radio should
> > > transmit any
>
> > > replies on the antenna it received the request on.
>
> > >
>
> > > Gerald Pelnar WD0FYF
>
> > >
>
> > >
>
> > > ----- Original Message -----
>
> > > From: "WILLIAM WALLACE" <bill@>
>
> > > To: <ntms-hsmm@yahoogroups.com>
>
> > > Sent: Monday, July 19, 2010 8:26 AM
>
> > > Subject: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes
>

> > >
>
> > >
>
> > > >I have the exact same question. I guess as we try to plan a
> > > >network for
>
> > > > this function we run into a situation where we have a need for a
> > > > relay
>
> > > > point
>
> > > > that needs more than an omni antenna to tie our other locations
together.
>
> > > >
>
> > > > Bill Wallace KC0TGY
>
> > > >
>
> > > >
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> > > >
>
> > > >
>
> > > > [Non-text portions of this message have been removed]
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> > > > Yahoo! Groups Links
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> > Yahoo! Groups Links
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> --
>
> Kipton Moravec AE5IB .- . ... -...
>
>
>
> "Always do right; this will gratify some people and astonish the rest."
>
> --Mark Twain
>
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> [Non-text portions of this message have been removed]
>

Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 9.0.851 / Virus Database: 271.1.1/3016 - Release Date: 07/20/10
00:36:00

No virus found in this outgoing message.
Checked by AVG - www.avg.com
Version: 9.0.851 / Virus Database: 271.1.1/3016 - Release Date: 07/20/10
12:36:00

1908. Re: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2010-07-21 01:32:00 UTC
From: Gerald Pelnar
Topic: 1862 Message: 1908

Steve,

I read the tech note. Thanks for your input

Gerald WD0FYF

----- Original Message -----
From: "Steve W3AHL" <w3ahl@...>
To: <ntms-hsmm@yahoogroups.com>
Sent: Tuesday, July 20, 2010 9:05 AM
Subject: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes

>
> Refer to:
> http://www.cisco.com/en/US/tech/tk722/tk809/technologies_tech_note09186a008019f646.shtml
>

1909. Re: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2010-07-21 07:54:06 UTC
From: Glenn Currie
Topic: 1862 Message: 1909

Yes, thanks for the app note, good info.

-Glenn

--- On Tue, 7/20/10, Gerald Pelnar <wd0fyf@...> wrote:

From: Gerald Pelnar <wd0fyf@...>
Subject: Re: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, July 20, 2010, 8:32 PM

Steve,

I read the tech note. Thanks for your input

Gerald WD0FYF

----- Original Message -----

From: "Steve W3AHL" <w3ahl@...>

To: <ntms-hsmm@yahoogroups.com>

Sent: Tuesday, July 20, 2010 9:05 AM

Subject: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes

>

> Refer to:

> http://www.cisco.com/en/US/tech/tk722/tk809/technologies_tech_note09186a008019f646.shtml

>

[Non-text portions of this message have been removed]

1910. RE: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2010-07-21 09:52:29 UTC
From: Jay Nugent
Topic: 1862 Message: 1910

Greetings,

On Tue, 20 Jul 2010, Dave wrote:

> Following up on the mention of 'testing limits' I was wondering if anyone is
> using HSMM and Asterisk together in an Ecomm environment?

Yes, sort of... As our first deployment and test of HSMM-MESH we deployed a handfull of MESH nodes around a 420-acre private campground in Northern Michigan where we held our ARRL Michigan Section Summer Family Outing (an annual 4-day campout for Hams and their families with activities and forums for the attendees). Off of those MESH nodes we attached standard Access Points. Off the main MESH node we attached a cellphone Internet connection.

Every laptop on the campgrounds now had access to the Internet to check mail and surf the web. We also had a number of SIP WiFi handsets that registered to an Asterisk server back in Ypsilanti Michigan and provided access to the PSTN as well as could call each other.

This all worked wonderfully and quite dependably :)

Attention to the "evils" of doing NAT, and taking care to set 'default' routes correctly meant for a smooth running field deployed network.

--- Jay Nugent WB8TKL
o Chair, ARRL Michigan Section "Digital Radio Group" (DRG)
www.MI-DRG.org

Train how you will Operate, and you will Operate how you were Trained.

+----------+
| Jay Nugent jjn@... (734)484-5105 (734)649-0850/Cell |
| Nugent Telecommunications [www.nuge.com] |
| Internet Consulting/Linux SysAdmin/Engineering & Design/ISP Reseller |
| ISP Monitoring [www.ispmonitor.org] ISP & Modem Performance Monitoring |
| Web-Pegasus [www.webpegasus.com] Web Hosting/DNS Hosting/Shell Accts|
+----------+

5:01am up 7 days, 12:29, 3 users, load average: 0.76, 0.33, 0.33

1911. Re: [ntms-hsmm] Re:Questions about multiple HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2010-07-21 14:32:15 UTC
From: Bill V WA7NWP
Topic: 1862 Message: 1911

> mail and surf the web. We also had a number of SIP WiFi handsets that
> registered to an Asterisk server back in Ypsilanti Michigan and provided
> access to the PSTN as well as could call each other.

Any particular model WiFi handset that would be good to pick up and
experiment with these days?

Thanks,
Bill - WA7NWP

1912. Fw: Purposed tower ordinance for Lucas, Texas

Yahoo group: DAWG-HSMM
Date: 2010-07-21 16:36:45 UTC
From: Patrick Soileau ND5C
Topic: 1912 Message: 1912

From: Larry Essary <larry@...>
Subject: Purposed tower ordinance for Lucas, Texas
To: "Larry Essary K5XG" <larry@...>
Date: Wednesday, July 21, 2010, 12:16 PM

All the hams of Lucas, Texas NEED YOUR HELP !

My next door neighbor has requested that the city of Lucas establish a new tower ordinance.

I have attached to this email, in an Adobe pdf file, his communications to the city.
His letter is public record and I secured it via a request for public information.

If his request was to be tuned into an ordinance it would, among other things, effectively kill off the use of any YAGI antenna for HF/VHF/UHF/MW and inhibit you from attaching ANYTHING to the tower including wire antennas and any support ropes for them. As requested it would also inhibit you from attaching a vertical antenna (VHF/UHF) to the top or side of the tower. In effect making it pointless to install a tower WHICH is his goal.

He also requested that towers be limited to one in quantity with a max height of 50 feet.

The purposed ordinance is tentatively scheduled to be on the Lucas Planning & Zoning agenda for the September 9, 2010 meeting.

The meeting start at 7 PM and takes place in the new Lucas city hall located at 665 Country Club Lane.

We need to PACK the room with hams, even if you do not live in Lucas, as non-sense like this tends to have ripple effects into other communities and their ordinances.
.
PLEASE place the date and time on your calendar and make it a priority to attend.September 9, 2010 meeting at 7 PM.

One last note - The major of my antennas are up and my installations will be grandfathered in.

My effort is to protect all of the other hams in Lucas that may want to install a tower in the future.

Please come and help protect all of our amateur radio interests.

Larry Essary - K5XG
214 -495-8066 #202 work

- Those Serve Bravely Who Guard the Idea of America -

[Non-text portions of this message have been removed]

1913. Re: Fw: Purposed tower ordinance for Lucas, Texas

Yahoo group: DAWG-HSMM
Date: 2010-07-22 12:58:22 UTC
From: Steve W3AHL
Topic: 1912 Message: 1913

Google "PRB-1 Texas" for information on state statutes that limit restrictions that municipal governemnts can impose on amateur tower and antenna installations.

While is is always good to have a large crowd show up at a meeting to support an issue, it is even better to present a factual, legal arguement invalidating the proposed restrictions.

Contact the ARRL to enlist professional resources in your state familiar with Texas code 250.002 "Regulation of Amateur Radio Towers".

Steve, W3AHL

--- In ntms-hsmm@yahoogroups.com, Patrick Soileau ND5C <patrick@...> wrote:
>
> From: Larry Essary <larry@...>
> Subject: Purposed tower ordinance for Lucas, Texas
> To: "Larry Essary K5XG" <larry@...>
> Date: Wednesday, July 21, 2010, 12:16 PM
>
> All the hams of Lucas, Texas NEED YOUR HELP !
>
> My next door neighbor has requested that the city of Lucas establish a new tower ordinance.
>
> I have attached to this email, in an Adobe pdf file, his communications to the city.
> His letter is public record and I secured it via a request for public information.
>
> If his request was to be tuned into an ordinance it would, among other things, effectively kill off the use of any YAGI antenna for HF/VHF/UHF/MW and inhibit you from attaching ANYTHING to the tower including wire antennas and any support ropes for them. As requested it would also inhibit you from attaching a vertical antenna (VHF/UHF) to the top or side of the tower. In effect making it pointless to install a tower WHICH is his goal.
>
> He also requested that towers be limited to one in quantity with a max height of 50 feet.
>
>
> The purposed ordinance is tentatively scheduled to be on the Lucas Planning & Zoning agenda for the September 9, 2010 meeting.
>
> The meeting start at 7 PM and takes place in the new Lucas city hall located at 665 Country Club Lane.
>
> We need to PACK the room with hams, even if you do not live in Lucas, as non-sense like this tends to have ripple effects into other communities and their ordinances.
> .

> PLEASE place the date and time on your calendar and make it a priority to attend.September 9, 2010 meeting at 7 PM.
>
>
> One last note - The major of my antennas are up and my installations will be grandfathered in.
>
> My effort is to protect all of the other hams in Lucas that may want to install a tower in the future.
>
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>
>
> Larry Essary - K5XG
> 214 -495-8066 #202 work
>
>
> - Those Serve Bravely Who Guard the Idea of America -
>
> [Non-text portions of this message have been removed]
>

1914. Re: Fw: Purposed tower ordinance for Lucas, Texas

Yahoo group: DAWG-HSMM
Date: 2010-07-22 14:38:12 UTC
From: Dennis K
Topic: 1912 Message: 1914

While I'm not very active on this group, I can offer a suggestion regarding this topic as well. Here in Delaware, we had a cell phone bill passed that was so inclusive that it would have stopped all mobile use of Amateur Radio in a moving vehicle unless it was "hands free". We gathered a large group of Hams (remember Delaware is a very small state) and armed them with "educational" material regarding the uses for Ham radio during emergencies. That coupled with the fact that a few of us knew our state senators and representatives well enough to ask them to sponsor and co-sponsor a new bill that removed the restrictions for mobile use of Ham radios. It worked very well. They were impressed with all of the quality information we provided and with the fact that so many interested parties were there at Legislative Hall for two days. The vote was unanimous in both houses.

--- In ntms-hsmm@yahoogroups.com, "Steve W3AHL" <w3ahl@...> wrote:
>
> Google "PRB-1 Texas" for information on state statutes that limit restrictions that municipal governemnts can impose on amateur tower and antenna installations.
>
> While is is always good to have a large crowd show up at a meeting to support an issue, it is even better to present a factual, legal arguement invalidating the proposed restrictions.
>
> Contact the ARRL to enlist professional resources in your state familiar with Texas code 250.002 "Regulation of Amateur Radio Towers".
>
> Steve, W3AHL
>
> --- In ntms-hsmm@yahoogroups.com, Patrick Soileau ND5C <patrick@> wrote:
> >
> > From: Larry Essary <larry@>
> > Subject: Purposed tower ordinance for Lucas, Texas
> > To: "Larry Essary K5XG" <larry@>
> > Date: Wednesday, July 21, 2010, 12:16 PM
> >
> > All the hams of Lucas, Texas NEED YOUR HELP !
> >
> > My next door neighbor has requested that the city of Lucas establish a new tower ordinance.
> >
> > I have attached to this email, in an Adobe pdf file, his communications to the city.
> > His letter is public record and I secured it via a request for public information.
> >
> > If his request was to be tuned into an ordinance it would, among other things, effectively kill off the use of any YAGI antenna for HF/VHF/UHF/MW and inhibit you from attaching ANYTHING to the tower including wire antennas and any support ropes for them. As requested it would also inhibit you from attaching a vertical antenna (VHF/UHF) to the top or side of the tower. In effect making it pointless to install a tower WHICH is his goal.

> >
> > He also requested that towers be limited to one in quantity with a max height of 50 feet.
> >
> >
> > The purposed ordinance is tentatively scheduled to be on the Lucas Planning & Zoning agenda for the September 9, 2010 meeting.
> >
> > The meeting start at 7 PM and takes place in the new Lucas city hall located at 665 Country Club Lane.
> >
> > We need to PACK the room with hams, even if you do not live in Lucas, as non-sense like this tends to have ripple effects into other communities and their ordinances.
> > .
> > PLEASE place the date and time on your calendar and make it a priority to attend.September 9, 2010 meeting at 7 PM.
> >
> >
> > One last note - The major of my antennas are up and my installations will be grandfathered in.
> >
> > My effort is to protect all of the other hams in Lucas that may want to install a tower in the future.
> >
> > Please come and help protect all of our amateur radio interests.
> >
> >
> > Larry Essary - K5XG
> > 214 -495-8066 #202 work
> >
> >
> > - Those Serve Bravely Who Guard the Idea of America -
> >
> > [Non-text portions of this message have been removed]
> >
>

1915. Re: Fw: Purposed tower ordinance for Lucas, Texas

Yahoo group: DAWG-HSMM
Date: 2010-07-23 13:04:31 UTC
From: rddunnin@rockwellcollins.com
Topic: 1912 Message: 1915

Check out Garland Texas Tower Ordinance. When I was on the Garland City Council I worked with ARRL and we were able to pass a very enlightened ordinance that removed the arbitrary limitations set up to discourage Amateur Radio. You can see it in the Code of Municipal Ordinances online at http://www.ci.garland.tx.us and navigate to the ordinances page.

RD - KC5QHH

[Non-text portions of this message have been removed]

1916. Re: [ntms-hsmm] Re: Fw: Purposed tower ordinance for Lucas, Texas

Yahoo group: DAWG-HSMM
Date: 2010-07-24 13:54:22 UTC
From: Josh Mercer
Topic: 1912 Message: 1916

I live in Lucas and will plan on attending the meeting.

I have been to one of the Planning and Zoning meetings in Lucas before to voice my opinion against a proposed zoning change in my neighborhood. I agree with Steve that presenting a valid legal argument will greatly help the cause instead of just standing up and saying "I oppose this ordinance". Although, I think it will also help to have as many people present at the meeting as possible, even if we all stand up and present the same valid argument. That is basically what we did at the meeting I attended. Several people from my neighborhood were present and we all stood up and had our say, which was basically the same argument against the proposal. After the meeting, the Planning and Zoning committee commented that they were pleased to see so many people at the meeting to voice their opinions about the direction of their community. The City council and, from what I have seen, the Planning and Zoning committee are very laid back and do not want to see a bunch of ordinances governing what can and can not be done within the City. They leave that more or less to the HOA's.

There are several examples that show antennas can rarely be restricted by HOA's and City ordinances, but I am not sure that towers themselves are quite as protected as antennas.

I live in a neighborhood that does not have an HOA and I can put up whatever tower I want, and would like to keep it that way.

KE5FCO

On 7/22/2010 7:58 AM, Steve W3AHL wrote:
>
> Google "PRB-1 Texas" for information on state statutes that limit
> restrictions that municipal governemnts can impose on amateur tower
> and antenna installations.
>
> While is is always good to have a large crowd show up at a meeting to
> support an issue, it is even better to present a factual, legal
> arguement invalidating the proposed restrictions.
>
> Contact the ARRL to enlist professional resources in your state
> familiar with Texas code 250.002 "Regulation of Amateur Radio Towers".
>
> Steve, W3AHL
>
> --- In ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>,
> Patrick Soileau ND5C <patrick@...> wrote:
> >

> > From: Larry Essary <larry@...>
> > Subject: Purposed tower ordinance for Lucas, Texas
> > To: "Larry Essary K5XG" <larry@...>
> > Date: Wednesday, July 21, 2010, 12:16 PM
> >
> > All the hams of Lucas, Texas NEED YOUR HELP !
> >
> > My next door neighbor has requested that the city of Lucas establish
> a new tower ordinance.
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> > I have attached to this email, in an Adobe pdf file, his
> communications to the city.
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> (VHF/UHF) to the top or side of the tower. In effect making it
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> > He also requested that towers be limited to one in quantity with a
> max height of 50 feet.
> >
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> located at 665 Country Club Lane.
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> >

> > Larry Essary - K5XG
> > 214 -495-8066 #202 work
> >
> >
> > - Those Serve Bravely Who Guard the Idea of America -
> >
> > [Non-text portions of this message have been removed]
> >
>
>

[Non-text portions of this message have been removed]

1917. Re: [ntms-hsmm] Fw: Purposed tower ordinance for Lucas, Texas

Yahoo group: DAWG-HSMM
Date: 2010-07-21 16:56:40 UTC
From: KJ6KO
Topic: 1912 Message: 1917

Be sure to take a copy of PRB-1 with you and present it to them. It says they have to "reasonably accomodate" amateurs. What is reasonable?? Take a picture of W5UN's or K5GW's installation, a picture of yours and a picture of a house with NO antennas. You can call UN and GW's station, "Unreasonable" (although I think it's beautiful!), call yours "reasonable" and the house with NO antennas "unaccomodating".

...worth a try!

There's also a law, may be just in CA, that says no one, including ANY homeowner's association, can stop you from putting up an antenna for free over the air TV reception....regardless of CC&R rules or prior agreements! Check on that....may just be a CA thng. Maybe those are all TV antennas on your tower!

73....KJ6KO

Good Luck!
----- Original Message -----
From: Patrick Soileau ND5C
To: mesquiteHAM@yahoogroups.com ; mckinneyARC@yahoogroups.com ; rwk-tnx@yahoogroups.com ; CollinARES@yahoogroups.com ; K5QHD@yahoogroups.com ; TXHAMPAC@yahoogroups.com ; nts_aprs_ug@yahoogroups.com ; austin_hsmm_development@yahoogroups.com ; ntms-hsmm@yahoogroups.com ; SETXHam@yahoogroups.com ; TexasRSChat@yahoogroups.com ; TexasHams@yahoogroups.com ; TexasVHF@yahoogroups.com ; k5rav@...
Sent: Wednesday, July 21, 2010 9:36 AM
Subject: [ntms-hsmm] Fw: Purposed tower ordinance for Lucas, Texas

From: Larry Essary <larry@...>
Subject: Purposed tower ordinance for Lucas, Texas
To: "Larry Essary K5XG" <larry@...>
Date: Wednesday, July 21, 2010, 12:16 PM

All the hams of Lucas, Texas NEED YOUR HELP !

My next door neighbor has requested that the city of Lucas establish a new tower ordinance.

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Larry Essary - K5XG
214 -495-8066 #202 work

- Those Serve Bravely Who Guard the Idea of America -

[Non-text portions of this message have been removed]

_____ Information from ESET NOD32 Antivirus, version of virus signature database 5298 (20100721) _____

The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

_____ Information from ESET NOD32 Antivirus, version of virus signature database 5298 (20100721) _____

The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

[Non-text portions of this message have been removed]

1918. HSMM-MESH nodes in difficult to access places

Yahoo group: DAWG-HSMM
Date: 2010-07-25 05:49:35 UTC
From: Todd Caldwell
Topic: 1912 Message: 1918

Another question -

We are preparing here in Mesquite to install some nodes up on towers
and other not readily accessible locations.

I seem to recall from Kip's presentation in Lucas back in February
that there is a way to remotely access nodes for software updates and such.

Can someone please refresh my memory on how this works ? I seem to
recall it involving SSH keys, but the details escape me.

Thanks,

Todd Caldwell - K5SLR
Mesquite, TX

1919. Re: [ntms-hsmm] HSMM-MESH nodes in difficult to access places

Yahoo group: DAWG-HSMM
Date: 2010-07-25 06:19:21 UTC
From: Kipton Moravec
Topic: 1912 Message: 1919

On Sun, 2010-07-25 at 00:49 -0500, Todd Caldwell wrote:
> Another question -
>
> We are preparing here in Mesquite to install some nodes up on towers
> and other not readily accessible locations.
>
> I seem to recall from Kip's presentation in Lucas back in February
> that there is a way to remotely access nodes for software updates and such.
>
> Can someone please refresh my memory on how this works ? I seem to
> recall it involving SSH keys, but the details escape me.
>
> Thanks,
>
> Todd Caldwell - K5SLR
> Mesquite, TX
>

The SSH Keys are only for identifying your computer as a trusted computer. It bypasses having to log in, that is all it does. It comes in handy if you happen to forget the login password.

I think you have to ftp the upgrade to a special directory and reboot. I do not think it is documented on the HSMM-MESH.org website yet. I will find out during the week and get back to you.

Rusty should know how to do it.

Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1920. Re: [ntms-hsmm] HSMM-MESH nodes in difficult to access places

Yahoo group: DAWG-HSMM
Date: 2010-07-25 19:35:26 UTC
From: Rusty Haddock
Topic: 1912 Message: 1920

Kipton Moravec wrote:
>On Sun, 2010-07-25 at 00:49 -0500, Todd Caldwell wrote:
>> Another question -
>>
>> We are preparing here in Mesquite to install some nodes up on towers
>> and other not readily accessible locations.
>>
>> I seem to recall from Kip's presentation in Lucas back in February
>> that there is a way to remotely access nodes for software updates and such.

Certainly the web interface allows one to update the firmware remotely.
The other way, is to 'scp' the .trx file into /tmp of the remote node
and then tell it to execute 'reflash'. The 'reflash' command will update
the flash firmware and then reboot the node.

Keep in mind, that no matter which way you do it, the node will still
revert to an AP with the SSID of 'MeshNode'. Your portable 'puter will
still have to break it's current connection and switch to the new SSID
so you can config the MeshNode (unless you can have another WiFi card
or another laptop). Best not to do multiple AP that are within the same
proximity at the same time -- it will git confusing!!

>> Can someone please refresh my memory on how this works ? I seem to
>> recall it involving SSH keys, but the details escape me.

Having SSH keys in the proper places would simply allow you to do that
'scp' and 'reflash' with 'ssh' (i.e. over an encrypted channel) without
having to re-enter the cotton-pickin' password each time. :-)

>> Thanks,
>>
>> Todd Caldwell - K5SLR
>> Mesquite, TX

>I think you have to ftp the upgrade to a special directory and reboot. I
>do not think it is documented on the HSMM-MESH.org website yet. I will
>find out during the week and get back to you.
>
>Rusty should know how to do it.

Yeah, there's a little script that comes with the source code that does
the update for ya.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the

```
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

1921. Mesquite, TX HSMM-MESH group

Yahoo group: DAWG-HSMM
Date: 2010-07-29 17:07:11 UTC
From: Todd Caldwell
Topic: 1912 Message: 1921

I attended Kip's presentation in Lucas back in February and met quite a few of you there. I've been interested in getting HSMM started in my area since then.

Earlier this month, I mentioned this to Andy Carstarphen - WY5V. He's also been looking into this idea. Andy is the current president of the Ham Association of Mesquite. We talked a bit about it at one of the club's "ham radio in the park" events earlier this month, and got Craig Green, KV5E - our RACES/ARES coordinator, and several others involved.

Things have really taken off since then.

The H.A.M. is now working on establishing an HSMM-MESH network in the Mesquite area. Several of us have nodes and are working our way through learning the system. I'm happy to report that enthusiasm and interest are high at present in the group.

To help each other get set up and handle questions, we've set up a Yahoo group.

http://groups.yahoo.com/group/mesquite-hsmm/

Members of the ntms-hsmm group are welcome to join us. DFW area locals doubly so.

73's de K5SLR (formerly KB5ULN)

Todd Caldwell - Mesquite, TX

1922. HSMM newbie shopping list?

Yahoo group: DAWG-HSMM
Date: 2010-08-01 16:36:46 UTC
From: wa5jxy
Topic: 1922 Message: 1922

Just curious if anyone has already created a spreadsheet listing the basic (and advanced) components and suggested vendors for newbie's just getting started in HSMM?

It would be a nice handout to help someone get started.

A "Suggested vendors" column is helpful because we all know there are several sources for the same item (Linksys routers) but it would be nice to know who is selling them the cheapest, no hassle, etc.

Same goes with antennas....lots of sources and brands but which one's are the most "recommended"? and where to buy?

And those darn POE's, waterproof cat5 connectors, housings, etc. etc.

I started a spreadsheet, but hate to reinvent the wheel if it has already been done.

73
Neil

1923. Re: [ntms-hsmm] HSMM newbie shopping list?

Yahoo group: DAWG-HSMM
Date: 2010-08-02 03:59:20 UTC
From: Kipton Moravec
Topic: 1922 Message: 1923

Check out my February Presentation.

http://www.hsmm-mesh.org/hsmm-files.html

Kip

On Sun, 2010-08-01 at 16:36 +0000, wa5jxy wrote:
> Just curious if anyone has already created a spreadsheet listing the basic (and advanced) components and suggested vendors for newbie's just getting started in HSMM?
>
> It would be a nice handout to help someone get started.
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> A "Suggested vendors" column is helpful because we all know there are several sources for the same item (Linksys routers) but it would be nice to know who is selling them the cheapest, no hassle, etc.
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> Same goes with antennas....lots of sources and brands but which one's are the most "recommended"? and where to buy?
>
> And those darn POE's, waterproof cat5 connectors, housings, etc. etc.
>
> I started a spreadsheet, but hate to reinvent the wheel if it has already been done.
>
> 73
> Neil
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> Yahoo! Groups Links
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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1924. Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-06 00:46:03 UTC
From: John
Topic: 1880 Message: 1924

Anyone in the group using Asterisk on a mesh network? I've got two nodes linked with Internet access, but can't get Echolink, IRLP or Allstar access going through my Asterisk box. Pretty sure I've got port forwarding screwed up. Suggestions appreciated.

John
>

[Non-text portions of this message have been removed]

1925. Re: [ntms-hsmm] Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-06 01:20:10 UTC
From: ALERTradio ERC | N0PCO
Topic: 1880 Message: 1925

Hello John, the quickest one to get online is Asterisk. You need to make sure that Port 4569 UDP is open for IAX2. Also Port 22 TCP for SSH if desired.

For additional details check http://app-rpt.qrvc.com/node/66

Mars, N0PCO
AELRTradio ERC
www.alertradio.net | www.asteriskradio.net | www.darnsimple.net
It's all about being ready.

KC0SOK Asterisk Nodes: 2095 UHF 443.2750, 2582 VHF 145.4700
KANSAS EchoLink Node: 44445

On 8/5/2010 19:46, John wrote:
> Anyone in the group using Asterisk on a mesh network? I've got two nodes linked with Internet access, but can't get Echolink, IRLP or Allstar access going through my Asterisk box. Pretty sure I've got port forwarding screwed up. Suggestions appreciated.
>
> John
>
>>
>
> [Non-text portions of this message have been removed]
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1926. RE: [ntms-hsmm] Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-06 02:24:24 UTC
From: Dave
Topic: 1880 Message: 1926

I went to the web site and couldn't find a contact email. I would like to email someone in the group who can help me with an Ast-over-radio install and understand better the opportunities it presents to Ecomm.

Dave
KA0SWT
Pueblo, CO

-----Original Message-----
From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of ALERTradio ERC | N0PCO
Sent: Thursday, August 05, 2010 19:20
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Asterisk & Port Forwarding

Hello John, the quickest one to get online is Asterisk. You need to make sure that Port 4569 UDP is open for IAX2. Also Port 22 TCP for SSH if desired.

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KC0SOK Asterisk Nodes: 2095 UHF 443.2750, 2582 VHF 145.4700
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On 8/5/2010 19:46, John wrote:
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>
> John
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> [Non-text portions of this message have been removed]
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Yahoo! Groups Links

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 9.0.851 / Virus Database: 271.1.1/3051 - Release Date: 08/05/10
12:23:00

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Checked by AVG - www.avg.com
Version: 9.0.851 / Virus Database: 271.1.1/3051 - Release Date: 08/05/10
12:23:00

1927. RE: [ntms-hsmm] Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-06 04:03:30 UTC
From: Glenn Currie
Topic: 1880 Message: 1927

Dave,

Not sure which website you are referring to. I am one of the HSMM-MESH developers. I am also working on Asterisk applications. It may take a while, but I will work with you until we sort out the details.

To get started, let me know as much as you can about what you are trying to do. I would also keep in contact with others on this list that have Asterisk experience.

I am busy preparing a HSMM-MESH presentation and demo for Summerfest 2010 here in Austin.

-Glenn
kd5mfw@...

--- On Thu, 8/5/10, Dave <dave@...> wrote:

From: Dave <dave@...>
Subject: RE: [ntms-hsmm] Asterisk & Port Forwarding
To: ntms-hsmm@yahoogroups.com
Date: Thursday, August 5, 2010, 9:24 PM

I went to the web site and couldn't find a contact email. I would like to

email someone in the group who can help me with an Ast-over-radio install

and understand better the opportunities it presents to Ecomm.

Dave

KA0SWT

Pueblo, CO

-----Original Message-----

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf

Of ALERTradio ERC | N0PCO

Sent: Thursday, August 05, 2010 19:20

To: ntms-hsmm@yahoogroups.com

Subject: Re: [ntms-hsmm] Asterisk & Port Forwarding

Hello John, the quickest one to get online is Asterisk. You need to

make sure that Port 4569 UDP is open for IAX2. Also Port 22 TCP for

SSH if desired.

For additional details check http://app-rpt.qrvc.com/node/66

Mars, N0PCO

AELRTradio ERC

www.alertradio.net | www.asteriskradio.net | www.darnsimple.net It's all

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KC0SOK Asterisk Nodes: 2095 UHF 443.2750, 2582 VHF 145.4700

KANSAS EchoLink Node: 44445

On 8/5/2010 19:46, John wrote:

> Anyone in the group using Asterisk on a mesh network? I've got two nodes

linked with Internet access, but can't get Echolink, IRLP or Allstar access

going through my Asterisk box. Pretty sure I've got port forwarding screwed

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>

> John

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> [Non-text portions of this message have been removed]

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12:23:00

[Non-text portions of this message have been removed]

1928. Re: [ntms-hsmm] Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-06 04:29:20 UTC
From: Todd Caldwell
Topic: 1880 Message: 1928

I'm trying to get asterisk set up and plan to then use it via mesh nodes here in Mesquite.

Still on the steep part of the asterisk learning curve here, but I'll be very interested in any information as well.

Todd Caldwell - K5SLR

John wrote:
> Anyone in the group using Asterisk on a mesh network? I've got two nodes linked with Internet access, but can't get Echolink, IRLP or Allstar access going through my Asterisk box. Pretty sure I've got port forwarding screwed up. Suggestions appreciated.
>
> John
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>
> [Non-text portions of this message have been removed]

1929. Re: Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-06 14:21:32 UTC
From: ag5rs
Topic: 1880 Message: 1929

Dave & Glenn,
I have a bit of asterisk experience and a fairly good background in port handling. In particular I have successfully set up Echolink in both Windows and Linux systems. Doing this allowed me to make a contact from Dubai to the South Texas balloon at 22 miles up and back down to several ground stations. Super fun!

I agree with Glenn, in order to help we would need to know what Dave is trying to do exactly. Asterisk is a very broad term and covers many options. For example are you trying to be able to route a SIP or IAX connection through HSMM? Are you wanting to use Asterisk as a phone patch from HSMM to the POTS? Are you wanting to use HSMM as an OPX link for Asterisk? Etc.

I want to learn more about this topic myself and would enjoy helping anyone by sharing what I already know.

Ron, AG5RS

--- In ntms-hsmm@yahoogroups.com, Glenn Currie <kd5mfw_7@...> wrote:
>
> Dave,
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> Not sure which website you are referring to.Â I am one of the HSMM-MESH developers.Â I am also working on Asterisk applications.Â It may take a while, but I will work with you until we sort out the details.
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> To get started, let me know as much as you can about what you are trying to do.Â I would also keep in contact with others on this list that have Asterisk experience.
>
> I am busy preparing a HSMM-MESH presentation and demo for Summerfest 2010 here in Austin.
>
> -Glenn
> kd5mfw@...
>
> --- On Thu, 8/5/10, Dave <dave@...> wrote:
>
> From: Dave <dave@...>
> Subject: RE: [ntms-hsmm] Asterisk & Port Forwarding
> To: ntms-hsmm@yahoogroups.com
> Date: Thursday, August 5, 2010, 9:24 PM
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> and understand better the opportunities it presents to Ecomm.
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> Dave
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> KA0SWT
>
> Pueblo, CO
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>
> -----Original Message-----
>
> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
>
> Of ALERTradio ERC | N0PCO
>
> Sent: Thursday, August 05, 2010 19:20
>
> To: ntms-hsmm@yahoogroups.com
>
> Subject: Re: [ntms-hsmm] Asterisk & Port Forwarding
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> Hello John, the quickest one to get online is Asterisk. You need to
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> For additional details check http://app-rpt.qrvc.com/node/66
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> KC0SOK Asterisk Nodes: 2095 UHF 443.2750, 2582 VHF 145.4700
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> *KANSAS* EchoLink Node: 44445
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1930. Re: [ntms-hsmm] Re: Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-06 14:43:57 UTC
From: John (WB5NFC)
Topic: 1880 Message: 1930

It looks like I hit a pretty hot topic with my original post. I can't speak for Dave or Glenn, but since I started the thread, I want to jump back aboard before I get left in the dust <g>.

In my case, I am looking for specific guidance on how/where to forward the ports necessary for Allstar (ACID), Echolink and IRLP. My mesh is working and supplying Internet access from one node to the next, but Echolink and IRLP nodes cannot connect. Allstar status shows up in "green" and both Echolink and IRLP status pages show that the nodes are online. The CLI shows that the Echolink stations are being downloaded successfully to my box. I suspect that I am misinterpreting just where to forward the appropriate ports on the HSMM Mesh port forwarding page. Once I get this figured out, I will look at activating SIP ... which I think will be easy once I understand more of what I am doing wrong now.

Thanks to all who contribute time and knowledge to this great project!

John / WB5NFC

From: ag5rs <rls@...>
To: ntms-hsmm@yahoogroups.com
Sent: Fri, August 6, 2010 9:21:32 AM
Subject: [ntms-hsmm] Re: Asterisk & Port Forwarding

Dave & Glenn,
I have a bit of asterisk experience and a fairly good background in port handling. In particular I have successfully set up Echolink in both Windows and Linux systems. Doing this allowed me to make a contact from Dubai to the South Texas balloon at 22 miles up and back down to several ground stations. Super fun!

I agree with Glenn, in order to help we would need to know what Dave is trying to do exactly. Asterisk is a very broad term and covers many options. For example are you trying to be able to route a SIP or IAX connection through HSMM? Are you wanting to use Asterisk as a phone patch from HSMM to the POTS? Are you wanting to use HSMM as an OPX link for Asterisk? Etc.

I want to learn more about this topic myself and would enjoy helping anyone by sharing what I already know.

Ron, AG5RS

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> Dave,
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> Not sure which website you are referring to.Â I am one of the HSMM-MESH
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> To get started, let me know as much as you can about what you are trying to
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> -Glenn
> kd5mfw@...
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> --- On Thu, 8/5/10, Dave <dave@...> wrote:
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> From: Dave <dave@...>
> Subject: RE: [ntms-hsmm] Asterisk & Port Forwarding
> To: ntms-hsmm@yahoogroups.com
> Date: Thursday, August 5, 2010, 9:24 PM
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> To: ntms-hsmm@yahoogroups.com
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1931. Re: [ntms-hsmm] Re: Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-06 17:03:25 UTC
From: Glenn Currie
Topic: 1880 Message: 1931

Yes it is a hot topic! I you take even a quick look at:

<http://oreilly.com/catalog/9780596009625>

it is clear that it is a very large topic. Users can configure an Asterisk system in many ways. I am one of the original HSMM-MESH developers and it has become clear that even as we push forward with the IP v6 work for HSMM-MESH, many hams would benefit from sharing information on applications. VoIP via HSMM-MESH would be one of the most universally useful applications we could work on.

We could share information via this group or it might be appropriate to set up another group.

Different Asterisk users may have different requirements with what they wish to do with their systems. We started our mesh work to expand our capability with Travis County ARES in the Austin, Texas area. If we were to establish a few conventions, it might make it easier for ARES groups to link their Asterisk systems and train their members to use the system.

"Soft Phones" using the sound card of a PC and drawing a graphic of a phone on the screen is one of the least expensive ways to get started with Asterisk and VoIP experiments, and using them should always be an option, I am confident that many hams and people in served agencies will be more comfortable with a physical phone and handset. One of the key things is keeping training to a minimum, so the more you can set up a system that works like a "regular" phone, the less training you may need to do. I have found that the abstraction of using a soft phone is unfamiliar and unsettling to many.

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Subject: Re: [ntms-hsmm] Re: Asterisk & Port Forwarding
To: ntms-hsmm@yahoogroups.com
Date: Friday, August 6, 2010, 9:43 AM

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Yahoo group: DAWG-HSMM
Date: 2010-08-06 17:27:20 UTC
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Yahoo group: DAWG-HSMM
Date: 2010-08-06 17:57:24 UTC
From: Glenn Currie
Topic: 1880 Message: 1933

The "push to talk" type interface is tremendously important. The interface is a natural for hams. So it should be an option.

At all of the presentations I have done, there have always been hams that come up to look at the little blue Linksys box. They are expecting to see a mobile rig with a curly cord and mic for their vehicle. There is no reason such an interface could not be an option.

One of the constant problems with VoIP problems is to try to have enough bandwidth that the voice signals do not break up into jerky audio as packets get delayed. The overhead to support half duplex links where the operators expect there to be delays in replies actually taxes the network link less. I would like to be able to have the system work well for as many users as possible. They could just learn the basics to operate in one mode or they may decide to dig in and get to the point where they can do development work. But in any case, for my interest in emergency communications (see the Design Philosophy for HSMM-MESH) the system needs to be easy to set up and use. If you want to learn more, fine, but the idea is to have a system that is a tool that works when needed and one that will usually have the bandwidth to do things that other amateur radio modes cannot.

Many interesting topics. We can start collecting information and see which directions seem the best to invest in. For such an ambitious project, we will need the help and advice of a group of hams. Although a lot of things are quite possible, it takes more than one or two hams to accomplish many of them.

One only has to look at some of the linked repeater systems to see what can be done by a group. It takes time but a coordinated group can make it possible to actually bring large systems together and make them real.

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It looks like I hit a pretty hot topic with my original post. I can't speak for Dave or Glenn, but since I started the thread, I want to jump back aboard before

I get left in the dust <g>.

In my case, I am looking for specific guidance on how/where to forward the ports necessary for Allstar (ACID), Echolink and IRLP. My mesh is working and supplying Internet access from one node to the next, but Echolink and IRLP nodes cannot connect. Allstar status shows up in "green" and both Echolink and IRLP status pages show that the nodes are online. The CLI shows that the Echolink stations are being downloaded successfully to my box. I suspect that I am misinterpreting just where to forward the appropriate ports on the HSMM Mesh port forwarding page. Once I get this figured out, I will look at activating SIP ... which I think will be easy once I understand more of what I am doing wrong now.

Thanks to all who contribute time and knowledge to this great project!

John / WB5NFC

From: ag5rs <rls@...>

To: ntms-hsmm@yahoogroups.com

Sent: Fri, August 6, 2010 9:21:32 AM

Subject: [ntms-hsmm] Re: Asterisk & Port Forwarding

Dave & Glenn,

I have a bit of asterisk experience and a fairly good background in port handling. In particular I have successfully set up Echolink in both Windows and Linux systems. Doing this allowed me to make a contact from Dubai to the South Texas balloon at 22 miles up and back down to several ground stations. Super fun!

I agree with Glenn, in order to help we would need to know what Dave is trying to do exactly. Asterisk is a very broad term and covers many options. For example are you trying to be able to route a SIP or IAX connection through HSMM? Are you wanting to use Asterisk as a phone patch from HSMM to the POTS? Are you wanting to use HSMM as an OPX link for Asterisk? Etc.

I want to learn more about this topic myself and would enjoy helping anyone by

sharing what I already know.

Ron, AG5RS

--- In ntms-hsmm@yahoogroups.com, Glenn Currie <kd5mfw_7@...> wrote:

>

> Dave,

>

> Not sure which website you are referring to.Â I am one of the HSMM-MESH

>developers.Â I am also working on Asterisk applications.Â It may take a while,

>

>but I will work with you until we sort out the details.

>

> To get started, let me know as much as you can about what you are trying to

>do.Â I would also keep in contact with others on this list that have Asterisk

>experience.

>

> I am busy preparing a HSMM-MESH presentation and demo for Summerfest 2010 here

>in Austin.

>

> -Glenn

> kd5mfw@...

>

> --- On Thu, 8/5/10, Dave <dave@...> wrote:

>

> From: Dave <dave@...>

> Subject: RE: [ntms-hsmm] Asterisk & Port Forwarding

> To: ntms-hsmm@yahoogroups.com

> Date: Thursday, August 5, 2010, 9:24 PM

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> I went to the web site and couldn't find a contact email. I would like

to

>

> email someone in the group who can help me with an Ast-over-radio install

>

> and understand better the opportunities it presents to Ecomm.

>

>

>

> Dave

>

> KA0SWT

>

> Pueblo, CO

>

>

>

> -----Original Message-----

>

> From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf

>

> Of ALERTradio ERC | N0PCO

>

> Sent: Thursday, August 05, 2010 19:20

>

> To: ntms-hsmm@yahoogroups.com

>

> Subject: Re: [ntms-hsmm] Asterisk & Port Forwarding

>

>

>

> Hello John, the quickest one to get online is Asterisk. You need to

>

> make sure that Port 4569 UDP is open for IAX2. Also Port 22 TCP for

>

> SSH if desired.

>

>

>

> For additional details check http://app-rpt.qrvc.com/node/66

>

>

>

> Mars, N0PCO

>

> AELRTradio ERC

>

> www.alertradio.net | www.asteriskradio.net | www.darnsimple.net It's all

>

> about being ready.

>

>

>

> KC0SOK Asterisk Nodes: 2095 UHF 443.2750, 2582 VHF 145.4700

>

> *KANSAS* EchoLink Node: 44445

>

>

>

> On 8/5/2010 19:46, John wrote:

>

> > Anyone in the group using Asterisk on a mesh network? I've got two nodes

>

> linked with Internet access, but can't get Echolink, IRLP or Allstar access

>

> going through my Asterisk box. Pretty sure I've got port forwarding screwed

>

> up. Suggestions appreciated.

>

> >

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> > John

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> > [Non-text portions of this message have been removed]

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> Yahoo! Groups Links

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> No virus found in this incoming message.

>

> Checked by AVG - www.avg.com

>

> Version: 9.0.851 / Virus Database: 271.1.1/3051 - Release Date: 08/05/10

>

> 12:23:00

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> No virus found in this outgoing message.

>

> Checked by AVG - www.avg.com

>

> Version: 9.0.851 / Virus Database: 271.1.1/3051 - Release Date: 08/05/10

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> 12:23:00

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> [Non-text portions of this message have been removed]

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1934. Re: [ntms-hsmm] Re: Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-06 18:18:03 UTC
From: ALERTradio ERC | N0PCO
Topic: 1880 Message: 1934

/Sometimes technology is like a good puzzle, the picture isn't complete without all the pieces. /

To establish connectivity with stations that are using IRLP or EchoLink via the Asterisk RF Gateway you will need to add a couple of items.

Namely the channel drivers

For EchoLink take a look at "Setting up EchoLink Connectivity"

http://app-rpt.qrvc.com/node/56

Ports to open for EchoLink are:

TCP: 5200
UDP: 5198 and 5199

==========

For IRLP take a look at "Setting up IRLP Connectivity"

http://app-rpt.qrvc.com/node/57

Ports to open for IRLP are:

TCP: 15425, 15426, 15427
UDP: 2074-2094 (inclusive)

Details regarding IRLP ports can be found at:
www.irlp.net/ts.html

==========

Be sure that the ports listed above are being forwarded to the private IP address of the Asterisk server (e.g. 44.128.0.50 or 10.1.1.100). Sometimes the obvious gets in the way of success.

==========

There are a number of groups that have been working with Asterisk PBX and RF Gateways for nearly a decade (amazing to think the technology has been around for that long already).

For Amateur radio the best known Asterisk Group is known as the Allstar Link Network (http://allstarlink.org) which is a publicly-accessible (licensed required) Amateur Radio network. Another group that is active in development of networks using Asterisk is called Asterisk Radio Networks (http://asteriskradio.net), that is doing work with the complete Asterisk Communication Tool Chest (PBX and RF Gateways).

Asterisk Radio Networks is fortunate in having the opportunity to work with both Commercial and Amateur Radio networks and systems. The flexibility is indeed awesome.

When looking at HSMM there's some adding options where a complete "stand-alone" system can be created that can extend the last-mile coverage. There some new desk top phones that are available that can act as their own phone server as well as work with existing phone servers. Definitely makes for extremely quick network expansion when needed. Yes, there are a number Wi-FI devices available that can easily be configured, as well as some new devices that have video and voice capabilities (which would be ideal for locations that require verification that a person has arrived / departed) for remote locations.

Asterisk is indeed a Communications Tool Chest with one's imagination being the only limit.

==========
The ALERTradio ERC Groups sponsors the Friday Open Forum Net at 8 PM Central Time. It is available via EchoLink *KANSAS* Node: 44445, *NEBRASKA* Node: 256740 and via Asterisk KC0SOK Node: 2095 W4WWM Node: 2047. I invite you to join the net, where it is open to any topic (including HSMM and Asterisk).

Mars, N0PCO
ALERTradio ERC
www.alertradio.net | www.asteriskradio.net | www.darnsimple.net
It's all about being ready.

[Non-text portions of this message have been removed]

1935. Re: [ntms-hsmm] Re: Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-06 19:24:01 UTC
From: Glenn Currie
Topic: 1880 Message: 1935

Thanks for the URLs. I will get links to them up on the hsmm-mesh.org web page.

-Glenn

--- On Fri, 8/6/10, ALERTradio ERC | N0PCO <n0pco@alertradio.net> wrote:

From: ALERTradio ERC | N0PCO <n0pco@...>
Subject: Re: [ntms-hsmm] Re: Asterisk & Port Forwarding
To: ntms-hsmm@yahoogroups.com
Date: Friday, August 6, 2010, 1:18 PM

/Sometimes technology is like a good puzzle, the picture isn't complete

without all the pieces. /

To establish connectivity with stations that are using IRLP or EchoLink

via the Asterisk RF Gateway you will need to add a couple of items.

Namely the channel drivers

For EchoLink take a look at "Setting up EchoLink Connectivity"

http://app-rpt.qrvc.com/node/56

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UDP: 5198 and 5199

==========

For IRLP take a look at "Setting up IRLP Connectivity"

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UDP: 2074-2094 (inclusive)

Details regarding IRLP ports can be found at:

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==========

Be sure that the ports listed above are being forwarded to the private

IP address of the Asterisk server (e.g. 44.128.0.50 or 10.1.1.100).

Sometimes the obvious gets in the way of success.

==========

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Asterisk Radio Networks is fortunate in having the opportunity to work with both Commercial and Amateur Radio networks and systems. The flexibility is indeed awesome.

When looking at HSMM there's some adding options where a complete "stand-alone" system can be created that can extend the last-mile coverage. There some new desk top phones that are available that can act as their own phone server as well as work with existing phone servers. Definitely makes for extremely quick network expansion when needed. Yes, there are a number Wi-FI devices available that can easily be configured, as well as some new devices that have video and voice capabilities (which would be ideal for locations that require verification that a person has arrived / departed) for remote locations.

Asterisk is indeed a Communications Tool Chest with one's imagination being the only limit.

==========

The ALERTradio ERC Groups sponsors the Friday Open Forum Net at 8 PM Central Time. It is available via EchoLink *KANSAS* Node: 44445,

NEBRASKA Node: 256740 and via Asterisk KC0SOK Node: 2095 W4WWM Node: 2047. I invite you to join the net, where it is open to any topic (including HSMM and Asterisk).

Mars, N0PCO

ALERTradio ERC

www.alertradio.net | www.asteriskradio.net | www.darnsimple.net

It's all about being ready.

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1936. Re: Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-07 06:33:51 UTC
From: kb9mwr
Topic: 1880 Message: 1936

Along the same lines, here is something rather interesting that was recently sent my way.

----------Forwarded Message----------
You should read up about the "mesh potato" stuff on the village telco blog
http://www.villagetelco.org/

They have an embedded system with a wifi mesh network connection and a built in ATA or Analogue Terminal Adapter... to connect regular phones to voip stuff. I'm sure something like that could be modified to link into a repeater. It can run asterisk on the embedded cpu.

see here: http://wiki.villagetelco.org/index.php?title=Mesh_Potato_Features_/_Specs

James
N9XLC

1937. Re: Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-07 17:44:08 UTC
From: WILLIAM H WALLACE
Topic: 1880 Message: 1937

Glenn

Here is what I want to do with Asterisk. I have just started a Linux project intending to use Asterisk for use on the HSMM-MESH software to act as a private PBX for only the nodes and their LANs to communicate voice and video around the HSMM-MESH net work. There will be 100 mesh nodes with 4 LAN stations on each node. 400 to 500 callable telephone numbers. These will be preassisgned numbers with a web page directory link to make the call. That directory currently resides on each of our 400 stations. You will be making a call to a tactual address of a station, i.e. St. Johns hospital administration, not a call sign or person's name. There will be NO commercial internet linkage over the HSMM-MESH network. We are currently using CX3, which is a Windows program to perform this function, and it works well. We tunneled this since the HSMM-MESH software was not capable of opening a range of ports and could not hand UDL? Ports at that time. I have finally found a Linux programmer and provided him with a reasonable current Dell laptop to host this software. Phones will typically be soft phones or maybe some of them might be network phones. Soft phones hosted by the LAN stations (laptop computers). We have not figured out how to handle web phones, but it is on the investigate schedule.

Does anyone know what ports need to be opened, or do I just tell the programmer to open what the Asterisk manual says. I also understand Asterisk can communicate video as well as audio, but again that is on the investigate schedule. We are using old Netmeeting and it is working well. We may stay there because the software also includes whiteboard, etc features that would be helpful.

William H. Wallace
Attorney at Law
1863 Sonny Dr.
Arnold, Mo. 63010
314-630-7796

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[Non-text portions of this message have been removed]

1938. Re: Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-07 18:17:25 UTC
From: kb9mwr
Topic: 1880 Message: 1938

```
>
> Does anyone know what ports need to be opened, or do I just tell the
> programmer to open what the Asterisk manual says. I also
```

On the Asterisk server end open/forward:

UDP 5060 SIP registration
UDP 10001 - 20000 RTP (audio)
and if you plan to use IAX UDP 4569

1939. Re: [ntms-hsmm] Re: Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-08 01:45:17 UTC
From: Glenn Currie
Topic: 1880 Message: 1939

Bill,

Thanks for the Asterisk related info. At the hamfest "Summerfest" in Austin over the last two days, I talked with quite a few people that have Asterisk experience. Clearly the system if very flexible and can be configured in may ways. Our goal is to come up with some common configurations that, if followed, will allow ARES organizations to seamlessly link HSMM-MESH based Asterisk systems and talk to each other.

I am already spread very thin on development time but wanted to help coordinate a specific implementation of Asterisk that has published software and hardware guidelines so the systems can inter-operate.

Several people have already offered up very useful information as they have years of experience with Asterisk. I will be adding information to the hsmm-mesh.org web page with the specifics of our Asterisk work. One of the early steps is to get the already experienced Asterisk users to get Asterisk running over HSMM-MESH. We will note any possible changes to HSMM-MESH that might make it easier to support Asterisk and include any such changes in later releases of HSMM-MESH firmware.

We need to discuss using a common CODEC and some specific hardware and provide some detailed written descriptions of how everything is set up so hams from different ARES organizations can have their HSMM-MESH based Asterisk systems work without basic incompatibilities.

The task is relatively well defined and all the major pieces are available. We just need to try out the system and provide some basic info on how many VoIP links can be simultaneously maintained under various conditions.

So the big modules are available, we need to test and document all the specific details so the system will work well, and that will take a while. I plan to let the experienced Asterisk users take the lead and mainly act as a hub to collect and share information. Hams on this active group have an interest but this is not an Asterisk only group so we will cooperate with the moderator and keep the Asterisk postings at a workable level, and post documents and diagrams on the hsmm-mesh.org web page.

It is clear that VoIP is one of the applications most requested to run on top of HSMM-MESH. I think we may have picked up a couple of smart phone developers to do the smart phone apps needed to use Android OS and Apple iPhones on the system. This smart phone part of the project may seem to be icing on the cake and it is to a point but they younger hams were super excited about it and that was one of the key reasons to make it part of the project. They are cooking already.

I a exhausted from the hamfest and must prepare for work related stuff on Monday.

I have been saving all the Asterisk specific suggestions and questions to a file and will organize the information and get some related info on the hsmm-mesh.org page as soon as I can.

Thanks for all the interest and information. The specifics on port forwarding are much appreciated and noted.

-Glenn

--- On Sat, 8/7/10, WILLIAM H WALLACE <bill@...> wrote:

From: WILLIAM H WALLACE <bill@...>
Subject: [ntms-hsmm] Re: Asterisk & Port Forwarding
To: ntms-hsmm@yahoogroups.com
Date: Saturday, August 7, 2010, 12:44 PM

Glenn

Here is what I want to do with Asterisk. I have just started a Linux

project intending to use Asterisk for use on the HSMM-MESH software to act

as a private PBX for only the nodes and their LANs to communicate voice and

video around the HSMM-MESH net work. There will be 100 mesh nodes with 4

LAN stations on each node. 400 to 500 callable telephone numbers. These

will be preassisgned numbers with a web page directory link to make the

call. That directory currently resides on each of our 400 stations. You

will be making a call to a tactual address of a station, i.e. St. Johns

hospital administration, not a call sign or person's name. There will be

NO commercial internet linkage over the HSMM-MESH network. We are

currently using CX3, which is a Windows program to perform this function,

and it works well. We tunneled this since the HSMM-MESH software was not

capable of opening a range of ports and could not hand UDL? Ports at that

time. I have finally found a Linux programmer and provided him with a

reasonable current Dell laptop to host this software. Phones will typically

be soft phones or maybe some of them might be network phones. Soft phones

hosted by the LAN stations (laptop computers). We have not figured out how

to handle web phones, but it is on the investigate schedule.

Does anyone know what ports need to be opened, or do I just tell the

programmer to open what the Asterisk manual says. I also understand

Asterisk can communicate video as well as audio, but again that is on the

investigate schedule. We are using old Netmeeting and it is working well.

We may stay there because the software also includes whiteboard, etc features that would be helpful.

William H. Wallace

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[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1940. Re: k5srt wants to join ntms-hsmm

Yahoo group: DAWG-HSMM
Date: 2010-08-08 01:45:42 UTC
From: Kilgore
Topic: 1940 Message: 1940

Yahoo! Groups Notification wrote:
> Hello,
>
> The following person would like to join the ntms-hsmm group:
> Email address: k5srt <k5srt@...>
>
> Comment from user:
> K5SRT - Ross would love to get up to speed on the MESH Network stuff and
> have a BEFW11S4 if someone can point me to the steps I'll give it a try.
>
>

1941. Access to remote PC

Yahoo group: DAWG-HSMM
Date: 2010-08-08 05:23:03 UTC
From: Frank
Topic: 1941 Message: 1941

I have two MESH units named K5FER-Node1 and K5FER-Node2 with a PC connected to a LAN port on each unit. They work just fine and with Node1 connected to the internet thru the WAN port of the LinkSys I can access the Internet from either Node-1 or Node-2. Both are set for DHCP, Node-1 uses 172.27.1.x and Node-2 uses 172.27.0.x. The PC on node-1 is 172.27.1.112 and the PC on node-2 is 172.27.0.208.

I just get time outs when I ping either address.

My question is how do I connect to either PC from the other?

My goal is to place a server and other networked equipment that may be in a water tower on the net so we can gain access all the while being part of the MESH network.

Frank K5FER
Rowlett, TX.

1942. Re: [ntms-hsmm] Access to remote PC

Yahoo group: DAWG-HSMM
Date: 2010-08-08 06:01:13 UTC
From: Glenn Currie
Topic: 1941 Message: 1942

Others may jump in with a reply earlier, but I will add this question to many that came in a the Summerfest hamfest in Austin this weekend. It may take a while to get a reply to you.

-Glenn

kd5mfw@...

--- On Sun, 8/8/10, Frank <f.roesch@...> wrote:

From: Frank <f.roesch@verizon.net>
Subject: [ntms-hsmm] Access to remote PC
To: ntms-hsmm@yahoogroups.com
Date: Sunday, August 8, 2010, 12:23 AM

I have two MESH units named K5FER-Node1 and K5FER-Node2 with a PC connected to a LAN port on each unit. They work just fine and with Node1 connected to the internet thru the WAN port of the LinkSys I can access the Internet from either Node-1 or Node-2. Both are set for DHCP, Node-1 uses 172.27.1.x and Node-2 uses 172.27.0.x. The PC on node-1 is 172.27.1.112 and the PC on node-2 is 172.27.0.208.

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Frank K5FER

Rowlett, TX.

[Non-text portions of this message have been removed]

1943. Re: [ntms-hsmm] Access to remote PC

Yahoo group: DAWG-HSMM
Date: 2010-08-08 06:32:36 UTC
From: KJ6KO
Topic: 1941 Message: 1943

If I understand what you are doing correctly, you are trying to ping the IP of the computer connected to the Linksys from another computer somewhere else on the internet?? If so, you cannot ping the computer on a router from the other side of the router, meaning the internet. You can only ping the router itself. If you want to remotely control the PC connected to the router, you must assign a TCP port to pass thru the router to that particular PC, then use whatever remote program to control that PC. You can only ping another PC if it is on the same router as the one you are pinging from. If you are trying to use something like Desktop Remote, you must port forward the TCP port used by Desktop Remote to the PC you are trying to control. Then connect to the ROUTER's IP address followed by the port # used by the remote application.

For example, if your router was assigned IP 67.18.37.9 by your ISP, you would set desktop remote to connect to 67.18.37.9:3389....NOT the IP of the PC itself! 3389 is the TCP port used by Desktop Remote. This will only work AFTER port forwarding port 3389 to the PC you are trying to connect to. This is done in the router itself, either via the MAC address of the PC or by giving the PC a static IP to the router and assigning it to th the PC's static IP.

If your computer was NOT connected thru a router, and was directly connected to the internet via a cable modem or DSL modem, this does not apply. You can ping the PC directly. (Verizon DSL modems excluded as they are actually 1 port routers)

Of course, I could have easily misunderstood what you were trying to do and this means nothng to your situation...which is probably the case!

73 de Greg
----- Original Message -----
From: Frank
To: ntms-hsmm@yahoogroups.com
Sent: Saturday, August 07, 2010 10:23 PM
Subject: [ntms-hsmm] Access to remote PC

I have two MESH units named K5FER-Node1 and K5FER-Node2 with a PC connected to a LAN port on each unit. They work just fine and with Node1 connected to the internet thru the WAN port of the LinkSys I can access the Internet from either Node-1 or Node-2. Both are set for DHCP, Node-1 uses 172.27.1.x and Node-2 uses 172.27.0.x. The PC on node-1 is 172.27.1.112 and the PC on node-2 is 172.27.0.208.

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Frank K5FER
Rowlett, TX.

_____ Information from ESET NOD32 Antivirus, version of virus signature database 5349 (20100807) _____

The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

_____ Information from ESET NOD32 Antivirus, version of virus signature database 5349 (20100807) _____

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[Non-text portions of this message have been removed]

1944. RE: [ntms-hsmm] Access to remote PC

Yahoo group: DAWG-HSMM
Date: 2010-08-08 13:02:32 UTC
From: Frank Roesch
Topic: 1941 Message: 1944

I didn't plan to connect to the PC thru the WAN port of the router I just had it connected to prove that the routers did work. Now I have disconnected the WAN connection to the internet. So now I want to go back and forth over the MESH to get to my devices. I have both PC's set for file sharing and one has a shared printer.

Do the MESH routers build routing tables ? If so, Node-1 should have discovered that IP range of 172.27.0.x is over on Node-2 and then routed my ping request over there. In this case I'm trying to go from 172.27.1.112 across the MESH to 172.27.0.208.

Then this leads to a few bigger questions. Let's say that I put up two IP based video cameras on top of a water tower along with a repeater controller along with an EchoLink station, I need to access them from a remote MESH node, then I wanted to access something up in Plano, then I need to access a File server in some other location and then share a file between a server in Rowlett and one down in Austin.

Will the MESH system allow me to access and or share access to any of this equipment over the network and then how do we manage all the IP addresses to prevent duplicates or is the MESH designed as another way to get to the Internet in order to access public systems like Instant Messenger, etc ?

Frank K5FER

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of KJ6KO
Sent: Sunday, August 08, 2010 1:33 AM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Access to remote PC

If I understand what you are doing correctly, you are trying to ping the IP of the computer connected to the Linksys from another computer somewhere else on the internet?? If so, you cannot ping the computer on a router from the other side of the router, meaning the internet. You can only ping the router itself. If you want to remotely control the PC connected to the router, you must assign a TCP port to pass thru the router to that particular PC, then use whatever remote program to control that PC. You can only ping another PC if it is on the same router as the one you are pinging from. If you are trying to use something like Desktop Remote, you must port forward the TCP port used by Desktop Remote to the PC you are trying to control. Then connect to the ROUTER's IP address followed by the port # used by the remote application.

For example, if your router was assigned IP 67.18.37.9 by your ISP, you would set desktop remote to connect to 67.18.37.9:3389....NOT the IP of the PC itself! 3389 is the TCP port used by Desktop Remote. This will only work

AFTER port forwarding port 3389 to the PC you are trying to connect to. This is done in the router itself, either via the MAC address of the PC or by giving the PC a static IP to the router and assigning it to th the PC's static IP.

If your computer was NOT connected thru a router, and was directly connected to the internet via a cable modem or DSL modem, this does not apply. You can ping the PC directly. (Verizon DSL modems excluded as they are actually 1 port routers)

Of course, I could have easily misunderstood what you were trying to do and this means nothng to your situation...which is probably the case!

73 de Greg
----- Original Message -----
From: Frank
To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
Sent: Saturday, August 07, 2010 10:23 PM
Subject: [ntms-hsmm] Access to remote PC

I have two MESH units named K5FER-Node1 and K5FER-Node2 with a PC connected to a LAN port on each unit. They work just fine and with Node1 connected to the internet thru the WAN port of the LinkSys I can access the Internet from either Node-1 or Node-2. Both are set for DHCP, Node-1 uses 172.27.1.x and Node-2 uses 172.27.0.x. The PC on node-1 is 172.27.1.112 and the PC on node-2 is 172.27.0.208.

I just get time outs when I ping either address.

My question is how do I connect to either PC from the other?

My goal is to place a server and other networked equipment that may be in a water tower on the net so we can gain access all the while being part of the MESH network.

Frank K5FER
Rowlett, TX.

_____ Information from ESET NOD32 Antivirus, version of virus signature database 5349 (20100807) _____

The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

_____ Information from ESET NOD32 Antivirus, version of virus signature database 5349 (20100807) _____

The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1945. Re: [ntms-hsmm] Access to remote PC

Yahoo group: DAWG-HSMM
Date: 2010-08-08 16:15:04 UTC
From: Rusty Haddock
Topic: 1941 Message: 1945

Frank Roesch wrote:
>I didn't plan to connect to the PC thru the WAN port of the router I just
>had it connected to prove that the routers did work. Now I have
>disconnected the WAN connection to the internet. So now I want to go back
>and forth over the MESH to get to my devices. I have both PC's set for file
>sharing and one has a shared printer.

Actually, the same basic thing that Greg told you applies since each MESH node has a firewall and NAT that protects the LAN and WAN from the WLAN (Wireless LAN).

>Do the MESH routers build routing tables ? If so, Node-1 should have
>discovered that IP range of 172.27.0.x is over on Node-2 and then routed my
>ping request over there. In this case I'm trying to go from 172.27.1.112
>across the MESH to 172.27.0.208.

Yes, the MESH routers build up routing tables but basically with routes to the other nodes. And Node-1 will not have discovered 172.27.0.x is over on Node-2 because those addresses are behind Node-1's NAT/firewall. Any packet that came from one of your 172.27.0.x machines, when it gets onto the wireless side, will have the IP address of Node-1's WLAN interface.

>Then this leads to a few bigger questions. Let's say that I put up
>two IP based video cameras on top of a water tower along with a
>repeater controller along with an EchoLink station, I need to access
>them from a remote MESH node, then I wanted to access something up in
>Plano, then I need to access a File server in some other location and
>then share a file between a server in Rowlett and one down in Austin.
>
>Will the MESH system allow me to access and or share access to any
>of this equipment over the network and then how do we manage all the

It will but not by default. Again, all that equipment is behind a NAT/firewall so you'll have to punch holes in said firewall(s) to allow access to those cameras and rptr. controller from the MESH and well as the Internet, if that MESH is so connected.

I like to think of the MESH as an ISP, just like the one you and your neighbors are using to access the Internet. All of you can access the Internet through a gateway. All of you can probably connect to each other if you can find out their IP addresses BUT.... You and your neighbors, if they have a brain cell or tooth in their heads, will protect their own home networks/PCs with a firewall/NAT. If a neighbor will allow access to a share or printer on his/her home network then he/she will have to punch a hole in his/her firewall for you.

>IP addresses to prevent duplicates or is the MESH designed as another

That's the basic beauty of the way the IP addresses are assigned in the 10.x.x.x range with our OpenWRT firmware configuration. That's roughly sixteen MILLION IP addresses available! While it is entirely POSSIBLE to have a duplicate IP address on a very large MESH, it is VERY UNLIKELY! If it does happen then one of the nodes can have their MESH IP address changed to keep the MESH copacetic.

Does that help, Frank?

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1946. RE: [ntms-hsmm] Access to remote PC

Yahoo group: DAWG-HSMM
Date: 2010-08-08 17:09:40 UTC
From: Frank Roesch
Topic: 1941 Message: 1946

Thank you Rusty, this does answer my questions.

Frank Roesch - K5FER

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Rusty Haddock
Sent: Sunday, August 08, 2010 11:15 AM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Access to remote PC

Frank Roesch wrote:
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>had it connected to prove that the routers did work. Now I have
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_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

[Non-text portions of this message have been removed]

1947. Re: [ntms-hsmm] Access to remote PC

Yahoo group: DAWG-HSMM
Date: 2010-08-08 23:40:19 UTC
From: Floyd Rodgers
Topic: 1941 Message: 1947

You may have made a type in the IP addresses, but they are not on the
same subnet based on the numbers you supplied. If that it intentional,
netmask needs to be 255.255.0.0 not the standard 255.255.255.0.

Frank Roesch wrote:
>
>
> Do the MESH routers build routing tables ? If so, Node-1 should have
> discovered that IP range of 172.27.0.x is over on Node-2 and then
> routed my
> ping request over there. In this case I'm trying to go from 172.27.1.112
> across the MESH to 172.27.0.208.
>
>

1948. Mobile , Animal , Flower & Love Wallpaper 10:46:20 AM8/10/2010

Yahoo group: DAWG-HSMM
Date: 2010-08-10 06:46:20 UTC
From: Zhamak Boobs
Topic: 1948 Message: 1948

10:46:20 AM

Mobile , Animal , Flower & Love Wallpaper

Landscape Mobile FlowersCats2
Mobile 20 Wallpaper Flowers1cats1
best Mobile Wallpaper Flower Wallpapers 3Frog_Wallpapers
Mobile Wallpaper 2010 HQ Beautiful Flowers Beautiful Animals Wallpap
Best Mobile Wallpaper-1 Black2Cartoon Cats Pictures
Cute Mobile Wallpaper1 Black Wallpaper-14Animal
Best Mobile Wallpaper 2 Black Wallpapers - Part 1Graphic Wallpaper1
Love WallpaperLovely Wallpaper 2Wallpaper Love & kiss
Lovely WallpaperLovely Wallpaper-3 Best Pic of Love Story
Best Love Story 2 Love Wallpaper exotic birds
Best Mobile Wallpaper 3 Wallpaper Black Packe

Hot Links
Best Desktop Wallpaper Pack 1Best Mobile Ringtone Pack 2Mobile Wallpaper
Best Desktop Wallpaper Pack 2Best Mobile Ringtone Pack 1Animal Wallpaper
Love WallpaperBest Magazine-Free DownloadFlower Wallpaper
Model WallpaperFamous Artists & Singers picHot Wallpaper
Best Cars 2011Best 2010 video ClipsHot Artists Pic

[Non-text portions of this message have been removed]

1949. Re:Mobile , Animal , Flower & Love Wallpaper 10:46:20 AM8/10/2010

Yahoo group: DAWG-HSMM
Date: 2010-08-10 16:14:36 UTC
From: WILLIAM H WALLACE
Topic: 1948 Message: 1949

WHAT IS THIS????

William H. Wallace

[Non-text portions of this message have been removed]

1950. RE: [ntms-hsmm] Re:Mobile , Animal , Flower & Love Wallpaper 10:46:20 AM8/10/2010

Yahoo group: DAWG-HSMM
Date: 2010-08-10 16:17:39 UTC
From: Charles Mumphrey Kc5ozh
Topic: 1950 Message: 1950

"SPAM"

"It is not the class of license the Amateur holds, but the class of the Amateur that holds the license."

Charles Mumphrey
Amateur Radio Station Kc5ozh
Repeater System:
Rowlett Main: 441.325 MHz + 162.2
Dallas: 441.950 MHz + 162.2
Rowlett II: 441.950 MHz + 110.9
Rowlett III: 147.390 + 85.4
KC5OZH-R EchoLink Node: 350616
K5FER-L EchoLink Node: 394575
Rowlett R.A.C.E.S. Unit 808 ARO-Equipment
http://www.CharliesElectronics.com

-------- Original Message --------
Subject: [ntms-hsmm] Re:Mobile , Animal , Flower & Love Wallpaper 10:46:20 AM8/10/2010
From: "WILLIAM H WALLACE" <bill@williamhwallace.com>
Date: Tue, August 10, 2010 11:14 am
To: <ntms-hsmm@yahoogroups.com>

WHAT IS THIS????

William H. Wallace

[Non-text portions of this message have been removed]

Yahoo! Groups Links

1951. Fw : You could download all your favorite music , videos , wallpapers for FREE!

Yahoo group: DAWG-HSMM
Date: 2010-08-18 01:37:08 UTC
From: Sali Rostami
Topic: 1951 Message: 1951

5:37:08 AM

My friend sent this email to me , and as I found it so interesting , I forwarded it to you . Hope you enjoy it too. (No Spam)

Dear Friend!
Congratulations! You could download all your favorite music , videos , wallpapers for FREE!

Best 2010 video Clips : http://bestclip.utc.ir

Famous Hot Artists & Singers pic : http://singer-artists.utc.ir
Hot Model Wallpaper : http://modelwallpaper.fay.ir

Best Desktop Wallpaper Pack 1 : http://desktopwallpaper.co1.ir
Best Desktop Wallpaper Pack 2 : http://desktopwallpaper.rdn.ir
Love Wallpaper : http://lovewallpaper.co1.ir
Best Cars 2011 : http://bestcar.fay.ir

Best Mobile Ringtone Pack 1 : http://ringtone.4-u.ir
Best Mobile Ringtone Pack 2 : http://ringtone.kis.ir
Best Magazine : http://magazine.2fa.ir

Very Hot ==> Download Unlimited Free : http://group.3de.ir

Its so easy:
1-click on your favorite links.
2-click on "free download" button.
3-Then fill the letters & then click "download".
4-Wait about 60s & then right click on “ Download it” button and then save target as .
Now You get it!
Try it right now and enjoy it!
(Please note that because of so many downloads , all files are uploaded in file sharings)

[Non-text portions of this message have been removed]

1952. Re: [ntms-hsmm] Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-07 04:33:40 UTC
From: Josh Mercer
Topic: 1880 Message: 1952

Glenn-

What are some of the things that you are trying to do with Asterisk? I have been interested in interfacing Asterisk with radio for a while, I just haven't had the time to dig too deep in to it yet. I have quite a bit of experience with Asterisk as far as configuration and setting it up, in both LAN and WAN types of topologies. I run it at my house for my work phone and fax and have for the past 5 years or so. I have seen a couple of guys over the years here and there trying to do different things with Asterisk and PTT type applications, but haven't really seen any end results. I would be interested in hearing what types of projects you have in mind or are working on with Asterisk and helping out wherever I can.

KE5FCO

On 8/5/2010 11:03 PM, Glenn Currie wrote:
>
> Dave,
>
> Not sure which website you are referring to. I am one of the
> HSMM-MESH developers. I am also working on Asterisk applications. It
> may take a while, but I will work with you until we sort out the details.
>
> To get started, let me know as much as you can about what you are
> trying to do. I would also keep in contact with others on this list
> that have Asterisk experience.
>
> I am busy preparing a HSMM-MESH presentation and demo for Summerfest
> 2010 here in Austin.
>
> -Glenn
> kd5mfw@... <mailto:kd5mfw%40arrl.net>
>
> --- On Thu, 8/5/10, Dave <dave@... <mailto:dave%40mynatt.biz>>
> wrote:
>
> From: Dave <dave@... <mailto:dave%40mynatt.biz>>
> Subject: RE: [ntms-hsmm] Asterisk & Port Forwarding
> To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> Date: Thursday, August 5, 2010, 9:24 PM
>
>
>
> I went to the web site and couldn't find a contact email. I would like to
>

> email someone in the group who can help me with an Ast-over-radio install
>
> and understand better the opportunities it presents to Ecomm.
>
> Dave
>
> KA0SWT
>
> Pueblo, CO
>
> -----Original Message-----
>
> From: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
> [mailto:ntms-hsmm@yahoogroups.com
> <mailto:ntms-hsmm%40yahoogroups.com>] On Behalf
>
> Of ALERTradio ERC | N0PCO
>
> Sent: Thursday, August 05, 2010 19:20
>
> To: ntms-hsmm@yahoogroups.com <mailto:ntms-hsmm%40yahoogroups.com>
>
> Subject: Re: [ntms-hsmm] Asterisk & Port Forwarding
>
> Hello John, the quickest one to get online is Asterisk. You need to
>
> make sure that Port 4569 UDP is open for IAX2. Also Port 22 TCP for
>
> SSH if desired.
>
> For additional details check http://app-rpt.qrvc.com/node/66
>
> Mars, N0PCO
>
> AELRTradio ERC
>
> www.alertradio.net | www.asteriskradio.net | www.darnsimple.net It's all
>
> about being ready.
>
> KC0SOK Asterisk Nodes: 2095 UHF 443.2750, 2582 VHF 145.4700
>
> *KANSAS* EchoLink Node: 44445
>
> On 8/5/2010 19:46, John wrote:
>
> > Anyone in the group using Asterisk on a mesh network? I've got two nodes
>
> linked with Internet access, but can't get Echolink, IRLP or Allstar
> access

>
> going through my Asterisk box. Pretty sure I've got port forwarding
> screwed
>
> up. Suggestions appreciated.
>
> >
>
> > John
>
> >
>
> >>
>
> >
>
> > [Non-text portions of this message have been removed]
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> >
>
> ------------------------------------
>
> Yahoo! Groups Links
>
> No virus found in this incoming message.
>
> Checked by AVG - www.avg.com
>
> Version: 9.0.851 / Virus Database: 271.1.1/3051 - Release Date: 08/05/10
>
> 12:23:00
>
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>
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>
> 12:23:00
>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

1953. RE: [ntms-hsmm] Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-06 02:26:07 UTC
From: Travus T. Elm - discoverpc.NET
Topic: 1880 Message: 1953

I might be able to help
Work with asterisk at our office. And networking

Travus T. Elm
Discoverpc.NET LLC.

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf Of Dave
Sent: Thursday, August 05, 2010 9:24 PM
To: ntms-hsmm@yahoogroups.com
Subject: RE: [ntms-hsmm] Asterisk & Port Forwarding

I went to the web site and couldn't find a contact email. I would like to
email someone in the group who can help me with an Ast-over-radio install
and understand better the opportunities it presents to Ecomm.

Dave
KA0SWT
Pueblo, CO

-----Original Message-----
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[mailto:ntms-hsmm@yahoogroups.com<mailto:ntms-hsmm%40yahoogroups.com>] On Behalf
Of ALERTradio ERC | N0PCO
Sent: Thursday, August 05, 2010 19:20
To: ntms-hsmm@yahoogroups.com<mailto:ntms-hsmm%40yahoogroups.com>
Subject: Re: [ntms-hsmm] Asterisk & Port Forwarding

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For additional details check http://app-rpt.qrvc.com/node/66

Mars, N0PCO
AELRTradio ERC
www.alertradio.net<http://www.alertradio.net> |
www.asteriskradio.net<http://www.asteriskradio.net> |
www.darnsimple.net<http://www.darnsimple.net> It's all
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KC0SOK Asterisk Nodes: 2095 UHF 443.2750, 2582 VHF 145.4700
KANSAS EchoLink Node: 44445

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> John
>
>>
>
> [Non-text portions of this message have been removed]
>
>
>

Yahoo! Groups Links

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12:23:00

[Non-text portions of this message have been removed]

1954. RE: [ntms-hsmm] Asterisk & Port Forwarding

Yahoo group: DAWG-HSMM
Date: 2010-08-18 05:00:21 UTC
From: Glenn Currie
Topic: 1880 Message: 1954

I have had trouble with some spam and repeated messages on my yahoo email. If you have an interest in helping with VoIP applications on HSMM-MESH, let me know.

Thanks for your interest. Sorry if you get the message more than once or I have not replied to some of your previous emails to me.

-Glenn

kd5mfw@...

--- On Thu, 8/5/10, Travus T. Elm - discoverpc.NET <travus@...> wrote:

From: Travus T. Elm - discoverpc.NET <travus@...>
Subject: RE: [ntms-hsmm] Asterisk & Port Forwarding
To: "ntms-hsmm@yahoogroups.com" <ntms-hsmm@yahoogroups.com>
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AELRTradio ERC

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www.asteriskradio.net<http://www.asteriskradio.net> |
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>

> John

>

>>

>

> [Non-text portions of this message have been removed]

>

>

>

Yahoo! Groups Links

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Version: 9.0.851 / Virus Database: 271.1.1/3051 - Release Date: 08/05/10

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Version: 9.0.851 / Virus Database: 271.1.1/3051 - Release Date: 08/05/10

12:23:00

[Non-text portions of this message have been removed]

[Non-text portions of this message have been removed]

1955. ARRL/TAPR DCC Early Registration Deadline September 1st

Yahoo group: DAWG-HSMM
Date: 2010-08-30 22:05:34 UTC
From: Mark Thompson
Topic: 1955 Message: 1955

The ARRL/TAPR DCC (Digital Communication Conference) will be held

in the Portland, OR area on September 24 - 26.

----- Forwarded Message ----
From: Steven Bible <n7hpr@...>
To: tapr-announce@...; hpsdr@...enhpsdr.org
Sent: Mon, August 30, 2010 9:06:53 AM
Subject: [tapr-announce] DCC Early Registration Deadline September 1st

The September 1st deadline to register for the DCC and get the best room rates is fast approaching.

The DCC activities planning are in the final stages:

- The DCC Proceedings is over 200 pages! See the list of papers below.
- The speakers schedule is being planned.
- Introductory talks.
- Banquet Speaker
- The Sunday Seminar on DSP Tools, Techniques, and Tricks presented by Rick Muething, KN6KB (see below for abstract)
- Wonderful location at the Heathman Lodge, Vancouver, WA (http://www.heathmanlodge.com)

If you have not attended the DCC, you are missing out on a lot of technical fun. Papers, presentations, demos, meeting like minded people. It is a great event. Ask anyone who has attended one!

To register for the DCC go to http://www.tapr.org/dcc. Hotel registration information is also located there. Be sure to mention the DCC for the discounted rate.

See you at the 2010 DCC!

73, DCC Planning Committee.

Sunday Seminar

DSP Tools, Techniques, and Tricks

Rick Muething, KN6KB

Time: Sunday Sept 26, 8 AM 12 Noon

Prerequisites: An interest in Digital Signal Processing. Some experience in programming may be helpful. The only math you¹ll need is addition, subtraction, multiplication and division and some idea of what a sine wave

is.

Goals: The goal of the workshop is to encourage those peripherally interested in DSP to take the next step to learn what DSP can do and try some DSP design and coding. Each attendee will get a handout CD which will include all slides with links to useful references. The CD will also include some basic Windows VB.NET examples of operational code along with some useful DSP tools (demo versions).

Sessions: Four sessions 45 min each with 15 minute breaks.

1) DSP Intro and Basics: what we are trying to do with DSP. Why is it better/different than analog. The cornerstone of DSP .the Fourier Transform and the FFT.

2) DSP Tools: What you need to see, interpret and understand signals. Basic waveform processing utilities. How do you setup a sound card to capture and play back audio with examples. How to design basic DSP Filters using common tools.

3) DSP Techniques: How do we use DSP to do those things needed in a radio. Mixing, Filtering, Modulation, Demodulation, FSK, PSK, Tone Detection, AGC etc

4) DSP Tricks: Tricks of the trade to make the impractical possible. Common and useful tricks to make significant reductions in computer demands, Single tone detectors, decimation, windowing, CIC Filters, IQ sampling.

No seminar or workshop can cover this topic completely in a few hours but this workshop should remove some of the mystery of DSP and motivate those to learn what can be done and get more involved.

Bio: Rick is a retired entrepreneur electrical engineer and has been a ham since 1962. After volunteering for the Winlink Development effort in 1998 he focused his efforts on programming and DSP. Rick was responsible for the SCAMP, WINMOR and V4 sound card protocols described in the DCC 2004, 2008 and 2010 proceedings along with several of the software components of the Winlink 2000 system.

Proceedings of 29th Annual ARRL/TAPR Digital Communications Conference

Mobile Fading; Sachin Dubey and Kanchan Cecil

RF to Video Converter for Timex/Sinclair Computers; John M. Franke, WA4WDL

Robotic Radio and CW Robot, a Building Block for Robotic Radio; Rob Frohne, KL7NA

SDR Cube: A Portable Software Defined Radio Utilizing An Embedded DSP Engine for
Quadrature Sampling Transceivers; George L. Heron, N2APB and Juha Niinikoski, OH2NLT

A Simple SDR Receiver; Michael Hightower, KF6SJ

Testing a Digital-ATV Station using DVB-S; Ken Konechy, W6HHC and Robbie Robinson, KB6CJZ

Demand and Transmission of E-mail Reception Report in Digital Modes; Patrick Lindecker, F6CTE

Technical Aspects of RS ID and Call ID and Use; Patrick Lindecker, F6CTE

Simulation & Synthesis of Five Port Router; Swati Malviya and Anurag Jaiswal

Five Port Router for Network on Chip; Swati Malviya and Anurag Jaiswal

V4 and V4Chat: A Protocol and Client Optimized for Keyboard Radio QSOs; Rick Muething, KN6KB, AAA9WK

WINMOR Phase 2: Demonstration to Deployment; Rick Muething, KN6KB/AAA9WK

RMS Express A Multimode Winlink 2000 User Client Program; Victor Poor, W5SMM/AAA9WL

Introducing APRSSpeak: An APRStt implementation; Douglas D. Quagliana, KA2UPW/5

A Comparison of Different TCP/IP and DTN Protocols Over the D-Star Digital Data Mode; John Ronan, EI7IG and Cathal O’Connor

Bidirectional Low Frequency Transverter (Bi-LIF) Computer Interface for Demodulation and Modulation of Radio Signals; Alex Schwarz , VE7DXW

An FPGA-Based Transceiver Module; John B. Stephensen, KD6OZH

Terrestrial Link Budgets for Digital Communications; R. Swenson, KF4DII

The Effects of Authentication on AX.25 Packet Radio Data Transmission Time; Paul D. Wiedemeier, Ph.D., KE5LKY

[Non-text portions of this message have been removed]

1956. Streaming Video at Plano Baloon Festival

Yahoo group: DAWG-HSMM
Date: 2010-09-02 02:14:48 UTC
From: Kipton Moravec
Topic: 1956 Message: 1956

We have been asked to provide video of the launches for the Plano Balloon Festival.

I will have a HSMM-MESH running at the site, so I am looking for a team to get streaming video out to the internet so it can be watched from the Southfork Hotel where the Balloon Festival operations are, and anyone else that wants to watch.

Last year Tony Campbell set up a video camera. attached to his PC, which was hooked into a HSMM-MESH node. It was uploaded to Ustream.com (or something like that) and it was available to whoever wanted to watch.

I need to find some people willing to find a way to either do the same thing or find a better way to do it.

The Plano Balloon festival has Launches:
Friday September 17 at 8:00 a.m. Press Only
Friday September 17 at 6:00 p.m.
Saturday September 18 at 8:00 a.m. Press Only
Saturday September 18 at 6:00 p.m.
Sunday September 19 at 8:00 a.m. Press Only
Sunday September 19 at 6:00 p.m.

The first and last launches are not as important. as the middle 4.

Video not necessary during the day between launches.

Anyone interested in working on this? Let me know.

Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1957. Linksys WAP11

Yahoo group: DAWG-HSMM
Date: 2010-09-05 07:33:06 UTC
From: A E
Topic: 1957 Message: 1957

Hi Guys,

I have a Linksys Wap-11 access point, I see several Hams are using this for HSMM Mesh however, I can't seem to find the firmware to upload to this in order to get it to work.

Or am I missing something?

Thanks
Aaron
KE5KAF

1958. Re: [ntms-hsmm] Linksys WAP11

Yahoo group: DAWG-HSMM
Date: 2010-09-05 08:07:42 UTC
From: Rusty Haddock
Topic: 1957 Message: 1958

A E wrote:
>Hi Guys,
>
> I have a Linksys Wap-11 access point, I see several Hams are
>using this for HSMM Mesh however, I can't seem to find the
>firmware to upload to this in order to get it to work.
>
>Or am I missing something?

Uh, Aaron.... yer missing something. The WAP-11 is strictly 802.11b (not a real big issue) but its also a simple access point with no router capabilities at all. Also, I beleive, it also does not have the memory capacity to be reloaded with new firmware like OpenWRT. Yeah, I know they all look alike with the blue and black box but they are QUITE different. Sorry.

The HSMM-MESH group is using basically WRT54G, WRT54GS, and WRT54GL. The WRT54G and GS's you have to watch which version of the hardware you get because of changes in the amounts of memory Linksys/Cisco put into them at a certain point. Version 5.0 and beyond were essentially crippled. All WRT54GL's are good to buy. Fry's used to carry the WRT54GL but they no longer appear on the shelves, at least in the Dallas and Austin area.

Check out www.hsmm-mesh.org for gobs of information.

73
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

1959. HSMM at the Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2010-09-13 16:28:55 UTC
From: Kipton Moravec
Topic: 1959 Message: 1959

I am setting up HSMM at the Plano Balloon Festival at Oak Point Park in Plano.

Normally we have a node at the First United Methodist Church, At the Communications Trailer, at the Operations Tent, and at the Scissor Lift.

I also provide Internet access for the Accounting trailer on a separate network.

We will also be streaming video this year and Doug Kilgore can use some help with that aspect.

Wednesday afternoon I will be setting up the node at the Church.

Thursday afternoon/evening I will be setting up the rest of the network.

During the festival I just monitor the network, but we may need help with video.

Sunday evening everything at the site comes down.

Monday the church site comes down.

Do I nave any volunteers to help with any part at any time?

Kip
214-929-8121

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1960. DCC Forum Schedule Announced for ARRL/TAPR Digital Communications Conference, Portland, OR September 24 - 26

Yahoo group: DAWG-HSMM
Date: 2010-09-21 18:11:04 UTC
From: Mark Thompson
Topic: 1960 Message: 1960

The ARRL/TAPR DCC (Digital Communication Conference)
will be in Portland, OR on September 24 - 26.

TAPR is the national digital ham organization and the DCC is the annual conference.

The DCC Forum Schedule has been published & is available at:
www.tapr.org/pdf/DCC_2010_Schedule2010-09-17.pdf

As you will see there is something for everyone at the DCC including Technical Presentations & Papers

covering Digital Voice, Digital Amateur Television, Softwware Defined Radio & Digital Data and also Introductory Presentations.

The Saturday night banquet speaker will be Dr. Nathan “Chip” Cohen, W1YW.
Yaesu has contributed a VX-8DR HT as a major banquet prize. There will be other prizes as well.

More details about the banquet at: www.tapr.org/dcc#banquet

The Sunday morning Seminar will be conducted by Rick Muething, KN6KB and
will cover DSP Tools, Techniques, and Tricks.
More information about the Sunday seminar at: www.tapr.org/dcc#seminar

Complete information about the DCC is available at: www.tapr.org/dcc

We hope many of you can attend the DCC this year.

You can follow TAPR activities on Facebook & Twitter at
TAPR's Facebook Profile at: www.facebook.com/TAPRDigital &
TAPR'S Facebook Fan Page at: www.facebook.com/pages/TAPR/116614778354245
and on Twitter at: www.twitter.com/TAPRDigital

The Summer 2010 edition of the TAPR PSR Journal is now available at:
www.tapr.org/psr/psr112.pdf

73, Mark, WB9QZB
TAPR Board Member

[Non-text portions of this message have been removed]

1961. MobiCom Demos & Exhibits, Chicago, September 20 - 24

Yahoo group: DAWG-HSMM
Date: 2010-09-21 18:11:32 UTC
From: Mark Thompson
Topic: 1961 Message: 1961

Interesting topics!!

http://www.sigmobile.org/mobicom/2010/demos.html

MobiCom Demos and Exhibits, Chicago, September 20 - 24

The following demos are scheduled to be presented at MobiCom 2010:

ENCR - E-home Sensor Network based on Cognitive Radio
Shen Gu, Luoyi Fu, Xinbing Wang, Hui Yu, Xiaoying Gan (Shanghai Jiao Tong University)

Visible Light Communication on the Wireless Open-Access Research Platform
Cen Liu, Edward Knightly (Rice University)

Multi-Transceiver Free-Space-Optical Communication Structures
Abdullah Sevincer*, Mehmet Bilgi*, Murat Yuksel* and Nezih Pala** (*University of Nevada, Reno, ** Florida International University)

Bit Extraction from Received Signal Strength
Jessica Croft, Neal Patwari, Sneha K. Kasera (University of Utah)

Demonstration of a VOIP call through a cognitive radio network while avoiding primary users
Raghavendra Sathyanarayana, Hannu Tuomivaara, Matti Raustia (University of Oulu)

Automatic channel assignment and topology optimization in multi-radio wireless mesh networks
Krzysztof Grochla, Krzysztof Stasiak, Vasilios A. Siris*, Elias Tragos*
(Proximetry Poland, *Athens University of Economics & Business)

Demonstrating a Dynamic Multi-Channel Access 802.11 Mesh Network Prototype for High Bandwidth Requirements
Shashi Raj Singh, Mehul Motani (National University of Singapore)

GoBike: A Group Communication System for Bikers Based on Smart Phones
Lien-Wu Chen, Yu-Hao Peng, and Yu-Chee Tseng (National Chiao-Tung University)

Guided-Evolving:Convergence to Globally Optimal Load Balance by Distributed Computing using Local Information
Yongcai Wang, Yuexuan Wang, Xiao Qi (Tsinghua University)

Mobile Multimedia Streaming Improvements with Freeze-DCCPâˆ—
Olivier Mehani *^-, Roksana Boreli*^, Guillaume Jourjon*, Thierry Ernst+
(*National ICT Australia, ^Univ. of New South Wales, +INRIA, -Mines ParisTech)

A Demonstration of the Stix Management System for Broadband Wireless Access Networks

Giacomo Bernardi, Matt Calder, Damon Fenacci, Alex Macmillan, Mahesh K. Marina (Edinburgh University)

On-Demand, Deploy-Anywhere Wi-Fi Diagnostics
A.B.M. Musa, Jacob Ericsson (University of Illinois at Chicago)

A Working Single Channel, Full Duplex Wireless System
Jung Il Choi, Mayank Jain, Kannan Srinivasan, Richard Swensson, Philip Levis, Sachin Katti (Stanford University)

Demonstration of IEEE 802.15.5 Low Rate Mesh
Jun Sun Ryu, Gahng-Seop Ahn, Jiho Ryu, and Myung J. Lee (City University of New York)

A Demonstration of a new TCP Congestion Algorithm over LTE and other Challenging Networks
Jingyuan Wang, Jiangtao Wen, Jun Zhang, Yuxing Han (Tsinghua University)

Hijacking Power and Bandwidth from the Mobile Phone's Audio Interface
Ye-Sheng Kuo, Thomas Schmid, and Prabal Dutta (University of Michigan)

An Interactive Simulation of a Distributed Traffic Control System based on a VANET
Hugo Conceicao, Ricardo Fernandes, Pedro Gomes, Michel Ferreira, Ozan K. Tonguz* (University of Porto, *CMU)

Social WiFi - Leveraging Social Networks for Safe Wi-Fi Sharing
Fred Kilbourn, Jacob Ericsson (University of Illinois at Chicago)

Realizing Dynamic Spectrum Sharing For Heterogeneous Wireless Networks
Lei Yang, Zengbin Zhang, Wei Houâ€ , Ben Y. Zhao, Haitao Zheng (University of California, Santa Barbara)

ZiFi: ZigBee-assisted Wireless LAN Discovery
Ruogu Zhou+, Yongping Xiong*, Guoliang Xing+, Limin Sun*, Jian Ma^, (+Michigan State University, *Chinese Academy of Science, ^Nokia Research Center)

The Case for Multi-User Beamforming in Wireless LANs
Ehsan Aryafar, Edward W. Knightly (Rice University)

Opportunistic Video Streaming in WiFi-based Hybrid Mobile Networks
Hayoung Yoon, JongWon Kim, Robert Hsieh* (Gwangju Institute of Science, *Institute for Infocomm Research Singapore)

UrbanExplorer - An Automated Activity Discovery and Planning Assistant
James P. Biagioni, Jacob Ericsson (University of Illinois at Chicago)

Prototyping Energy Harvesting Active Networked Tags: Phase II MICA Mote-based Devices
Maria Gorlatova, Zainab Noorbhaiwala, Abraham Skolnik, John Sarik, Marcin Szczodrak, Jiasi Chen, Michael Zapas, Luca Carloni, Peter Kinget, Ioannis Kymissis, Dan Rubenstein, Gil Zussman (Columbia University)

FeuerWhere Body Area Network Demonstrator
Krzysztof Piotrowski, Anna Sojka and Peter Langendoerfer (IHP GmbH, Germany)

The SAC Gateway: Federating the Future Internet of Wireless Clouds
Pierre Imai*, Yoann Lopez+, Franck Legendre', Martin May@ (*University of Basel, +Thales Communications Colombes, 'ETH Zurich, @Technicolor Research Labs)

NVS: A Virtualization Substrate for WiMAX Networks
Ravi Kokku, Rajesh Mahindra, Honghai Zhang, and Sampath Rangarajan (NEC Laboratories)

Message Delivery in Heterogeneous Disruption-Prone Networks
Marc Mendonca*, Rao Naveed Bin Rais+, Thierry Turletti+, Katia Obraczka* (*UCSC, +INRIA)

Mobile Testbeds with an Attitude
Sungwook Moon, Gautam S. Thakur, Jeeyoung Kim, Yibin Wang, Saeed Moghaddam, Ahmed Helmy (University of Florida)

WiZi-Cloud: Integrating ZigBee into Mobile Phones for Energy Efficient Internet Access in WLANs
Tao Jin, Guevara Noubir, and Bo Sheng (Northeastern University)

[Non-text portions of this message have been removed]

1962. MRC call down test in november

Yahoo group: DAWG-HSMM
Date: 2010-09-25 18:28:04 UTC
From: Robert Ellis
Topic: 1962 Message: 1962

So, I got some email today from the Medical Reserve Corps (http://www.co.collin.tx.us/homeland_security/citizen/mrc.jsp) that includes:

All MRC Members will be contacted and will be expected to acknowledge the notification. Anyone who also wishes to participate in an Evacuation Drill after the initial Call Down test, will need to evacuate their home within 15 minutes of the notification if possible, with their 72hr. kits in hand and be able to rendezvous with other MRC volunteers at our pre-designated location of Myer's Park 7117 County Road 166 McKinney, TX 75071 (972) 548-4792 (families welcome). Map Link: http://mapq.st/h/6-vgJlYNjL
Participants can spend the night in their own tents, or just join the group for dinner. Everyone will eat dinner from their own 72 kit (I might bring hot dogs & buns). We will light a fire (without matches) and have S'mores for desert. Please review the Myer's Park policies attached to this email if you plan to participate in the evacuation drill. HAM radio operators are welcome to bring their radios. The date and time for this Call Down and Evacuation Drill will NOT BE ANNOUNCED prior to the event. Please ensure that all of your contact information has been updated in the MRC database
at: wwwmetroplexvolunteers.com Please do not include any parenthesis, dashes or periods when entering your phone number(s). If you are unable to enter the database by using your first and last name, all together in lower caps, as the User ID and Password (i.e. mariastephens) then please let me know.

Kinda like a field day that you can't prepare for.

It might be interesting for ham members to bring along their hsmm-mesh 'radios'. Virgin Mobile and Clearwire have some devices that could be used to provide internet access for wifi routers, though some might consider 4g/3g internet access cheating. ;)

robert

[Non-text portions of this message have been removed]

1963. hsmm-mesh node in Plano w/ mac ending in EA:56:A5?

Yahoo group: DAWG-HSMM
Date: 2010-09-29 04:42:52 UTC
From: Robert Ellis
Topic: 1963 Message: 1963

Does someone have an hsmm-mesh node with a mac address that ends with EA:56:A5?

I was playing with wscan this evening and saw such a node for a little while. (The router I saw it with isn't running hsmm-mesh, and my hsmm-mesh node couldn't see it.) Frankly, since I doubt any of you live near me I'm more inclined to think I saw it because I was modifying wscan.. The output from wscan was a little strange:

```
Sig Rel Ch E              SSID                     MAC      Vendor       5
--- --- -- - -------------------------------- ------------- ------
-56  20  1   HSMM-MESH                        aa:bb:cc:EA:56:A5: Ad-Hoc
-57  80  1   HSMM-MESH                        002369:82AA55 Ad-Hoc
```

The first one is the unknown; the second one is mine. (Initial parts of the unknown mac address have been blocked out in case someone doesn't want that mac address visible on the internet.) The format of the unknown's mac address did not conform with my mesh node, nor with the 10 or so Plano motomesh nodes within range of my house.

Just wondering,
 robert

[Non-text portions of this message have been removed]

1964. Restore default WRT54GL firmware

Yahoo group: DAWG-HSMM
Date: 2010-10-02 20:32:03 UTC
From: Neil Addis (WA5JXY)
Topic: 1964 Message: 1964

Any idea how to restore the default firmware in a new WRT54GL ?
I installed the HSMM firmware when I got it, but now I need to replace my home router so I want to revert back to the default until I order another one to replace it for HSMM.

I downloaded the default .bin file from Linksys and then logged into the router HSMM web page and tried the firmware upgrade process but it said it wanted only a .trx file.
I did some research they have a procedure to convert a .trx to .bin but I really dont want to go through all that process via linux.

Anyone already done this that might have already converted the .bin to .trx so I can reload without building and soldering the DB25 etc.?

Oh also I tried to tftp the .bin to it (-i for binary) but it keeps telling me timeout even though I can ping it.

Thanks for any help / suggestions (other than buying another new one!).

Neil
WA5JXY

1965. development process

Yahoo group: DAWG-HSMM
Date: 2010-10-03 03:46:48 UTC
From: Gerald Pelnar
Topic: 1965 Message: 1965

OK, I'm ready to jump in WAY over my head. I want to learn how the firmware development process works.

I was going to start with the basics from the OpenWRT site. I just wanted to know any pitfalls to avoid, so not to make the learning process any more difficult.

I have a Linux machine running Debian, an overwhelming desire to know how things work and no desire to take too much time from real developers.

Gerald WD0FYF

[Non-text portions of this message have been removed]

1966. Re: [ntms-hsmm] development process

Yahoo group: DAWG-HSMM
Date: 2010-10-11 20:11:23 UTC
From: Robert Ellis
Topic: 1965 Message: 1966

Gerald,

It is probably easiest to approach firmware development for your linksys routers using the hsmm-mesh software. One problem that I've experienced with openWRT is that the latest software available in any particular release (either backfire or kamikaze) isn't guaranteed to work on the routers that I'm using. In contrast, the hsmm-mesh software will work with your linksys routers. So, using the hsmm-mesh source development environment, you won't get a headache finding a tree that will both build and work.

There is some developer documentation for hsmm-mesh available here: http://hsmm-mesh.org/developer-documentation.html. One of the first things that you'll need is access to the svn repository for hsmm-mesh, which is described here: http://hsmm-mesh.org/developer-documentation/86-svnrepos.html. You should probably request both an account/password and a branch. That way, once you get the hang of things, you can submit modifications to the svn repository. ad5oo reviews changes on developer branches before merging them into the main trunk.

Besides working with a code tree that is known to work on the linksys routers, the svn repository also includes a binary cross compiler toolchain (eg, gcc, linker, librariest, etc). When you work with the openWRT svn repository, the cross compiler environment is built entirely from source. In a sense, openWRT is a linux distribution for which you build everything; in contrast, when you installed debian on your computer, the distribution included all the binaries required for the install.

(As an aside, if you are interested in tutorial on building linux, rather than openWRT, from scratch, I'd encourage you to look at http://www.linuxfromscratch.org. There are several different subprojects on this website ranging from the most basic (LFS) to a cross compiler environment (CLFS) which you could use, say, to build linux on an intel system for installation on MIPS processor. But, linuxfromscratch is not openWRT. It can be a good introduction to building software and describes many things that are handled automatically by the openWRT build environment such as:
why a cross compiler build environment is necessary
introduction to utilities that openWRT uses, such as busybox
what needs to change in the build process for an embedded environment as opposed to on a desktop system
Again, linuxfromscratch isn't openWRT and can't be installed on your routers.)

After you download hsmm-mesh from the svn repository, you can build your own hsmm-mesh firmware. With all the pre-compiled tools, software packages, and kernel, the build takes little time. http://hsmm-mesh.org/developer-documentation/87-using-the-imagebuilder.html describes how to do this. (Note that the hsmm-mesh development environment comes with a 'make' perl script, and must be invoked using "./make". Without that '.' you will invoke your systems 'make' binary, and you will not end up with firmware that you can install on your router.

Once you've built your own hsmm-mesh software, and have become familiar with the configuration environment on the router (say, to cause your routers to provide a smaller number of dhcp addresses on the LAN ports where the default is 190), you could modify the hsmm-mesh build environment on your debian system to limit the number of allocated IP addresses to 10 say. In my local tree, the dhcp limit is specified in a number of files:

```
myhost:etc k5osx$ pwd
/Users/gwraidd/HSMM/trunk/files/etc
myhostr:etc k5osx$ grep dhcp_limit config*/_setup{,.default}
config.ap/_setup:dhcp_limit = 190
config.client/_setup:dhcp_limit = 190
config.mesh/_setup:dhcp_limit = 190
config.mesh_ap/_setup:dhcp_limit = 190
config.router/_setup:dhcp_limit = 190
config.ap/_setup.default:dhcp_limit = 190
config.client/_setup.default:dhcp_limit = 190
config.mesh/_setup.default:dhcp_limit = 190
config.mesh_ap/_setup.default:dhcp_limit = 190
config.router/_setup.default:dhcp_limit = 190
myhost:etc k5osx$
```

So, to implement this change, I'd modify the above files and set the limit to 10, and then rebuild the software, and then if my router was ever used at an MRC POD, I might cause some consternation if a switch was ever connected to my router's LAN port. (There are multiple config directories because the routers can be used in different modes, such as an AP, or a mesh node, etc.)

Once you've played with modifying the hsmm-mesh configuration somewhat, you might consider adding your own binaries to the files directory. For example, on a unix system, I often use the 'view' command to give me read-only access to text files. I've been using the vi editor for a long time, and i prefer to look at some files using vi rather than the 'more' or 'less' commands. The 'view' command is simply an invocation of vi with the -R option. So, I created a little script files/bin/view:

```
myhost:~ k5osx$ cat view
#!/bin/bash
exec /usr/bin/vi -R  $@
myhost:~ k5osx$
```

Now, when I build hsmm-mesh firmware, my routers always have a 'view' command that does what I expect, rather than a busybox shell that goes "hunh unh."

From there, you might want to install some additional openWRT packages in your default hsmm-mesh build, or perhaps modify the existing packages in some way. To do that, you'll need to build openWRT from source, but i'll leave that tale for another time.

robert

On Oct 02, 2010, at 10:46 PM, Gerald Pelnar <wd0fyf@...> wrote:

OK, I'm ready to jump in WAY over my head. I want to learn how the firmware development process works.

I was going to start with the basics from the OpenWRT site. I just wanted to know any pitfalls to avoid, so not to make the learning process any more difficult.

I have a Linux machine running Debian, an overwhelming desire to know how things work and no desire to take too much time from real developers.

Gerald WD0FYF

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

1967. Request for "Digital Opinions" (What TNC would *you* get?)

Yahoo group: DAWG-HSMM
Date: 2010-10-12 20:00:20 UTC
From: Patrick Soileau ND5C
Topic: 1967 Message: 1967

Greetings!

I'm interested in getting started with Winlink/Paclink and APRS.

In the future, after this gets going, I'd like to become "digitally active" and try some digital modes on both VHF and HF.

In the beginning, what TNC would you recommend (and why)?

(Please note: it's not important to have "one size fits all" and have one TNC for everything, but I was thinking that if it can be done, it might be nice to have just a single model in the shack.)

Along those same lines, are there any that you would avoid?

Please feel free to either reply to the list from which you got this e-mail or reply directly offlist to me at Patrick@... .

Thanks in advance for your input!

73,

Patrick ND5C

[Non-text portions of this message have been removed]

1968. Re: [ntms-hsmm] Request for "Digital Opinions" (What TNC would *you* get?)

Yahoo group: DAWG-HSMM
Date: 2010-10-12 20:30:42 UTC
From: John Galvin
Topic: 1967 Message: 1968

Patrick and all,

There will be a Paclink presentation tonight at the McKinney ARC meeting. Some hands on too I believe. Also if you go to the following url there is additional information regarding Paclink and APRS.

73, John - N5TIM

<http://garlandr.s412.sureserver.com/PublicService/Tech-Info.html>

John Galvin - N5TIM
www.qsl.net/n5tim for Public Service Info
www.garlandraces.net
www.collinares.net/

JUNK - Stuff we throw away ... STUFF - Junk we keep!

On 10/12/2010 15:00, Patrick Soileau ND5C wrote:
>
>
> Greetings!
>
> I'm interested in getting started with Winlink/Paclink and APRS.
>
> In the future, after this gets going, I'd like to become "digitally
> active" and try some digital modes on both VHF and HF.
>
> In the beginning, what TNC would you recommend (and why)?
>
> (Please note: it's not important to have "one size fits all" and
> have one TNC for everything, but I was thinking that if it can be
> done, it might be nice to have just a single model in the shack.)
>
> Along those same lines, are there any that you would avoid?
>
> Please feel free to either reply to the list from which you got this
> e-mail or reply directly offlist to me at Patrick@...
> <mailto:Patrick%40ND5C.net> .
>
> Thanks in advance for your input!
>
> 73,
>
> Patrick ND5C
>

>
> [Non-text portions of this message have been removed]
>
>

[Non-text portions of this message have been removed]

1969. Coming to NCTECH?

Yahoo group: DAWG-HSMM
Date: 2010-11-10 03:02:16 UTC
From: kb5ylg
Topic: 1969 Message: 1969

We just started an HSMM interest group in Azle, will be at NCTECH hoping to exchange ideas.

NCTECH 2010

North Central Texas Emergency Communicators' Ham-festival
(A Great Texas Hamfest since 1997!)
November 13, 2010

7:00 AM to NOON
Azle Community Center
404 W. Main Street
Azle, TX 76020

http://www.wc5c.org

Contact Vic Bell KC5WEN at (817)444-5872.

NCTECH is hosted and sponsored by Tri-County Amateur Radio Club WC5C, and is always the second Saturday in November. The Hamfest is located in the Azle Community Center, 404 W. Main Street, in historic Azle, Texas.

Vendors are welcomed: One of the features of our hamfest is the Swap Meet area, a veritable Ham Radio and High Tech flea market, with new and used Amateur Radio bargains. Indoor tables are $10 each (paid in advance, $13 at door). Outdoor flea market space is free.

Presentations: Presentations are made by Disaster and Emergency Communications organizations and by Ham Radio clubs and experts. Sign up early to make your presentation!

Exam Sessions: A W5YI and/or ARRL Volunteer Examiner Exam Session starts at 9am, be sure to bring your photo ID, pencil and non-programmable calculator. Get prepared by taking a class in advance or self study! Click here for class information.

Organization Outreach: For Amateur Radio clubs and for Disaster Relief agencies wishing to set up a non-sales table to display information about your organization and achievements, or to conduct voluteer and membership drives, Indoor Tables are Free (limit 1 per organization)!

Parking: Parking is FREE!

Directions: Area maps to NCTECH <= click to load maps

Talk-In: 147.160 CTCSS 110.9 as WC5C

1970. New QAM Modem IC

Yahoo group: DAWG-HSMM
Date: 2010-11-11 15:12:38 UTC
From: jks19714
Topic: 1970 Message: 1970

I was "digging around" last night on CML Micro's website when I came across a new (to me, anyway) IC, the CMX7163. It is an I/Q-interfaced QAM Modem capable of 4-, 16- and 64-QAM modulation/demodulation at up to 64 kbps in a 25 kHz channel.

http://www.cmlmicro.com/Products/index.asp?/Products/WData/CMX7163.htm

Pretty intriguing little device. Runs on an SPI interface.

Do you think FCC would be OK with operations in this mode down as low as 6-meters? Wouldn't it be interesting to have a fairly long-haul system with 64 kbps trunks? Even on 222 MHz perhaps? :-)

Just thinking out loud for the moment. Wonder how much they would want for a pair of eval boards?

73,
john W3JKS/AAT3BF/AAM3EDE/AAM3RE/AAA9SL

1971. Vendor lineup for this Saturday's Hamfest

Yahoo group: DAWG-HSMM
Date: 2010-11-11 22:28:30 UTC
From: kb5ylg
Topic: 1971 Message: 1971

We completed the TECH class at Silver Creek Baptist Church in Azle, and got a few new hams out of it.

We have some great commercial vendors, flea market vendors, doorprizes and programs for NCTECH on Saturday.

Commercial Vendors signed up: Austin Amateur Radio Supply, Jubilee Enterprises, Main Trading Company (all three above deal in main stream transceivers, antennas, tuners and general Ham supplies), ABR and Wireman (both deal with coax and feedlines), Force 12 (Antennas) and I think a couple of others. There will be several flea market type vendors, too.

Organizations and Agencies:
Parker County Office of Emergency Management, Kno What 2 Do, AmSAT, MARS, Lonestar DX, Tri-County ARC, Lockeed ARC, DiRECT (Disaster Relief Emergency Communication Team), ARRL North Texas Section, ARRL West Gulf Division, and others

There will be a VE exam session starting at 9am.

NCTECH 2010
North Central Texas Emergency Communicators' Ham-festival
(A Great Texas Hamfest since 1997!)
November 13, 2010
7:00 AM to NOON
Azle Community Center
404 W. Main Street
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Vendors are welcomed: One of the features of our hamfest is the Swap Meet area, a veritable Ham Radio and High Tech flea market, with new and used Amateur Radio bargains.

Individual admission is $5.

Indoor tables are $10 each (paid in advance, $13 at door) but includes 1 individual admission. Outdoor flea market space is free.

Presentations: Presentations are made by Disaster and Emergency Communications organizations and by Ham Radio clubs and experts. Sign up early to make your presentation!
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Parking: Parking is FREE!

Talk-In: 147.160 CTCSS 110.9 as WC5C

1972. Re: New QAM Modem IC

Yahoo group: DAWG-HSMM
Date: 2010-11-12 13:54:58 UTC
From: Steve W3AHL
Topic: 1970 Message: 1972

On 6 & 2M the data rate may not exceed 19.6 kilobaud and maximum BW is 20KHz, per FCC 97.307(f)(5).

On 70 cm the limit is 56 kilobaud and BW is 100KHz

Above 70cm there are no specific limits.

Steve, W3AHL

--- In ntms-hsmm@yahoogroups.com, "jks19714" <aat3bf@...> wrote:
>
> I was "digging around" last night on CML Micro's website when I came across a new (to me, anyway) IC, the CMX7163. It is an I/Q-interfaced QAM Modem capable of 4-, 16- and 64-QAM modulation/demodulation at up to 64 kbps in a 25 kHz channel.
>
> http://www.cmlmicro.com/Products/index.asp?/Products/WData/CMX7163.htm
>
> Pretty intriguing little device. Runs on an SPI interface.
>
> Do you think FCC would be OK with operations in this mode down as low as 6-meters? Wouldn't it be interesting to have a fairly long-haul system with 64 kbps trunks? Even on 222 MHz perhaps? :-)
>
> Just thinking out loud for the moment. Wonder how much they would want for a pair of eval boards?
>
> 73,
> john W3JKS/AAT3BF/AAM3EDE/AAM3RE/AAA9SL
>

1973. Re: New QAM Modem IC

Yahoo group: DAWG-HSMM
Date: 2010-11-13 13:56:50 UTC
From: jks19714
Topic: 1970 Message: 1973

Well, I was thinking of applying for a waiver to the Commission -- it seems to me that the FCC rules are a little antiquated with respect to limiting the signaling rate when you can still fall within the channel bandwidth limitations. Plenty of room around here on 222!

73,
john W3JKS/AAT3BF/AAM3EDE/AAM3RE/AAA9SL

--- In ntms-hsmm@yahoogroups.com, "Steve W3AHL" <w3ahl@...> wrote:
>
> On 6 & 2M the data rate may not exceed 19.6 kilobaud and maximum BW is 20KHz, per FCC 97.307(f)(5).
>
> On 70 cm the limit is 56 kilobaud and BW is 100KHz
>
> Above 70cm there are no specific limits.
>
> Steve, W3AHL
>
> --- In ntms-hsmm@yahoogroups.com, "jks19714" <aat3bf@> wrote:
> >
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> > 73,
> > john W3JKS/AAT3BF/AAM3EDE/AAM3RE/AAA9SL
> >
>

1974. Re: New QAM Modem IC

Yahoo group: DAWG-HSMM
Date: 2010-11-13 15:06:41 UTC
From: ag5rs
Topic: 1970 Message: 1974

I have'nt studied the rules, but if they do in fact state 19.6 kiloBAUD then that might not be too bad.

Don't forget that 16QAM modulation puts 16 bits per baud. That would give a throughput of 313 kiloBITs per second. In most protocols that would give you about 27 KBytes/sec. Not enough for video but plenty for very high quality audio (e.g., OGG or MP3). If you compress a bit you could cram in three channels of 8K Speex or Low quality OGG.

Of course the 56k would be nearly 80KBytes/sec. Crank that to 64QAM and you get decent video.

Just my 2 cents.

Ron, AG5RS

--- In ntms-hsmm@yahoogroups.com, "jks19714" <aat3bf@...> wrote:
>
>
>
> Well, I was thinking of applying for a waiver to the Commission -- it seems to me that the FCC rules are a little antiquated with respect to limiting the signaling rate when you can still fall within the channel bandwidth limitations. Plenty of room around here on 222!
>
> 73,
> john W3JKS/AAT3BF/AAM3EDE/AAM3RE/AAA9SL
>
> --- In ntms-hsmm@yahoogroups.com, "Steve W3AHL" <w3ahl@> wrote:
> >
> > On 6 & 2M the data rate may not exceed 19.6 kilobaud and maximum BW is 20KHz, per FCC 97.307(f)(5).
> >
> > On 70 cm the limit is 56 kilobaud and BW is 100KHz
> >
> > Above 70cm there are no specific limits.
> >
> > Steve, W3AHL
> >
> > --- In ntms-hsmm@yahoogroups.com, "jks19714" <aat3bf@> wrote:
> > >
> > > I was "digging around" last night on CML Micro's website when I came across a new (to me, anyway) IC, the CMX7163. It is an I/Q-interfaced QAM Modem capable of 4-, 16- and 64-QAM modulation/demodulation at up to 64 kbps in a 25 kHz channel.
> > >
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> > >
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> > > Just thinking out loud for the moment. Wonder how much they would want for a pair of eval boards?
> > >
> > > 73,
> > > john W3JKS/AAT3BF/AAM3EDE/AAM3RE/AAA9SL
> > >
> >
>

1975. John Champa K8OCL, SK

Yahoo group: DAWG-HSMM
Date: 2010-11-14 21:50:21 UTC
From: Kilgore
Topic: 1975 Message: 1975

November 12, 2010
John J. Champa K8OCL passed away at his home in Richardson, Texas, after a valiant effort to overcome a malignant tumor. John?s wife, Karen, indicated that cremation will take place privately and that she will announce further plans in a few days.

John Champa was a past president of the Richardson (TX) Wireless Klub (http://K5RWK.org) and was a member of the North Texas Microwave Society (HSMM). The loss of his knowledge, experience, and ever-pleasant disposition leaves a significant void in the hearts and minds of his many friends and colleagues.

Attached is a PDF about John.

Doug Kilgore KD5OUG
Richardson Wireless Klub http://K5RWK.org
kd5oug@...

[Non-text portions of this message have been removed]

1976. Re: Lloyd Crawford, N5GDB - SK

Yahoo group: DAWG-HSMM
Date: 2010-11-26 22:22:57 UTC
From: ag5rs
Topic: 1976 Message: 1976

Lloyd was one of my most patient Elmers. His kind tutelage in microwave technology taught me much more than just microwaves. In his world 100 mW was often QRO and the value of good matching and proper antenna design and attention to detail was critical. Those skills transfer well to any frequency. His kindness and inclusion was exemplary.

I will miss him.

Ron, AG5RS

1977. Intercom ???

Yahoo group: DAWG-HSMM
Date: 2010-12-02 17:52:32 UTC
From: n9noc
Topic: 1977 Message: 1977

What software if any would allow a stand alone(no internet) 802.11b/g signal to be used for voice intercom walkie talkie or a link for repeater systems sometimes known as a ringdown line by phone guys? Brian nb9e

1978. Re: [ntms-hsmm] Intercom ???

Yahoo group: DAWG-HSMM
Date: 2010-12-02 18:35:50 UTC
From: Bob Scanferla
Topic: 1977 Message: 1978

I assume you are staying analog on the air link to the walkies....correct?

There are several instamces of people using ASTERISK (PBX) to interconnect repeaters digitaly.....of course you would need to include the A/D interface HW.

From: n9noc <nb9e@frontiernet.net>
To: ntms-hsmm@yahoogroups.com
Sent: Thu, December 2, 2010 12:52:32 PM
Subject: [ntms-hsmm] Intercom ???

What software if any would allow a stand alone(no internet) 802.11b/g signal to be used for voice intercom walkie talkie or a link for repeater systems sometimes known as a ringdown line by phone guys? Brian nb9e

[Non-text portions of this message have been removed]

1979. Re: [ntms-hsmm] Intercom ???

Yahoo group: DAWG-HSMM
Date: 2010-12-02 21:38:58 UTC
From: Ron
Topic: 1977 Message: 1979

This may be the project you are talking about.

http://asteriskradio.net/

Ron

--- On Thu, 12/2/10, Bob Scanferla <va3rjs@...> wrote:

From: Bob Scanferla <va3rjs@...>
Subject: Re: [ntms-hsmm] Intercom ???
To: ntms-hsmm@yahoogroups.com
Date: Thursday, December 2, 2010, 12:35 PM

I assume you are staying analog on the air link to the walkies....correct?

There are several instamces of people using ASTERISK (PBX) to interconnect
repeaters digitaly.....of course you would need to include the A/D interface HW.

_____
From: n9noc <nb9e@...>
To: ntms-hsmm@yahoogroups.com
Sent: Thu, December 2, 2010 12:52:32 PM
Subject: [ntms-hsmm] Intercom ???

What software if any would allow a stand alone(no internet) 802.11b/g signal to
be used for voice intercom walkie talkie or a link for repeater systems
sometimes known as a ringdown line by phone guys? Brian nb9e

[Non-text portions of this message have been removed]

Yahoo! Groups Links

[Non-text portions of this message have been removed]

1980. Re: Intercom ???

Yahoo group: DAWG-HSMM
Date: 2010-12-03 16:43:23 UTC
From: WILLIAM H WALLACE
Topic: 1977 Message: 1980

You may want to look at this site http://www.dd-wrt.com/wiki/index.php/UMA and last year someone was designing a telephone that was packaged with a MESH node to use for the project you were interested in. I will try to find that site, but as I remember it, it was the "turtle phone", but not the Microsoft "turtle phone" project

William H. Wallace

[Non-text portions of this message have been removed]

1981. Re: Intercom ???

Yahoo group: DAWG-HSMM
Date: 2010-12-09 21:21:46 UTC
From: jks19714
Topic: 1977 Message: 1981

Building on the idea of running Asterisk on one of the DD-WRT nodes OR on a small Linux box on-net, you could use Grandstream SIP phones as your audio interfaces and then the built-in intercom/paging features:

http://www.voip-info.org/wiki/view/Asterisk+Grandstream+Paging

Some assembly required. :-)

I'm setting up something similar in my Mobile Communications Unit project at the moment.

73,
john W3JKS/AAT3BF/AAM3EDE/AAM3RE/AAA9SL

--- In ntms-hsmm@yahoogroups.com, "n9noc" <nb9e@...> wrote:
>
> What software if any would allow a stand alone(no internet) 802.11b/g signal to be used for voice intercom walkie talkie or a link for repeater systems sometimes known as a ringdown line by phone guys? Brian nb9e
>

1982. IP Cameras

Yahoo group: DAWG-HSMM
Date: 2010-12-10 02:06:01 UTC
From: James C. Duram
Topic: 1982 Message: 1982

Looking for some "low cost" IP cameras to be used for foot races, etc....
Looking for ideas as this is being pay for by me!

Jim, K8COP

1983. Re: IP Cameras

Yahoo group: DAWG-HSMM
Date: 2010-12-15 14:04:08 UTC
From: jks19714
Topic: 1982 Message: 1983

I've found some good "specials" on cameras on mcmelectronics.com from time to time.

73,
john W3JKS/AAT3BF/AAM3EDE/AAM3RE/AAA9SL

--- In ntms-hsmm@yahoogroups.com, "James C. Duram" <jimk8cop@...> wrote:
>
> Looking for some "low cost" IP cameras to be used for foot races, etc....
> Looking for ideas as this is being pay for by me!
>
> Jim, K8COP
>

1984. Local - Your Webinar Invitation: Join us for "802.11 Networking with HSMM-MESH(tm) Software"

Yahoo group: DAWG-HSMM
Date: 2010-12-29 23:23:31 UTC
From: Kilgore
Topic: 1984 Message: 1984

Special note for North Texas hams:
The seminar will be conducted at the Lucas Fire Department training room, 165 Country Club Rd, Lucas, TX. Doors will open at 8:00am for set up. Those hams wishing to attend the seminar in person should contact Kip Moravec AE5IB at kip@.... Seating is limited.

802.11 Networking with HSMM-MESH(tm) Software

Join us for a Webinar on January 8

(https://www1.gotomeeting.com/register/336778289)

Space is limited.
Reserve your Webinar seat now at:
https://www1.gotomeeting.com/register/336778289

This webinar is an online version of a 802.11 wireless networking training seminar conducted by Kip Moravec AE5IB and Rusty Haddock AE5AE in the North Texas area at Lucas, TX. Seminar will include an introduction to wireless networking and the HSMM-MESH(tm) software developed for use on Linksys WRT54GL wireless router. Instructions for replacing the Linksys firmware with the new firmware will be given.

HSMM-MESH(tm) is a high speed, self discovering, self configuring, fault tolerant, wireless computer network that can run for days from a fully charged car battery, or indefinitely with the addition of a modest solar array or other supplemental power source. The focus is on emergency communications.

The latest version of HSMM-MESH(tm) is available for download at:
http://HSMM-MESH.org

A Yahoo group for HSMM in the North Texas area is:
http://groups.yahoo.com/group/ntms-hsmm/

The Yahoo group for HSMM in the Austin area is:
http://groups.yahoo.com/group/Austin_HSMM_Development

Title:

802.11 Networking with HSMM-MESH(tm) Software

Date:

Saturday, January 8, 2011

Time:

9:00 AM - 12:00 PM CST

After registering you will receive a confirmation email containing information about joining the Webinar.

System Requirements
PC-based attendees
Required: Windows® 7, Vista, XP or 2003 Server

Macintosh®-based attendees
Required: Mac OS® X 10.4.11 (Tiger®) or newer

1985. Webinar Announced on QRZ

Yahoo group: DAWG-HSMM
Date: 2011-01-07 17:29:42 UTC
From: Kilgore
Topic: 1985 Message: 1985

The HSMM-MESH webinar for Jan. 8 has been announced on QRZ:
http://forums.qrz.com/showthread.php?t=279197

Current registration as of 11:30 am Friday is 81 with registrants from Alaska and Canada included.

Doug KD5OUG

1986. Re: Webinar Announced on QRZ

Yahoo group: DAWG-HSMM
Date: 2011-01-09 19:15:30 UTC
From: Mark
Topic: 1985 Message: 1986

Unfortunately I did not notice the webinar announcement on QRZ & only saw this announcement in the group's digest a day after it occurred.

Was the webinar recorded & if so, is it a available to watch?

73, Mark, WB9QZB

1987. Re: [ntms-hsmm] Re: Webinar Announced on QRZ

Yahoo group: DAWG-HSMM
Date: 2011-01-09 19:44:51 UTC
From: David McAnally
Topic: 1985 Message: 1987

I believe the webinar was recorded, and the link will be published later.

They updated the hsmm-mesh news page with a link to the slide show pdf used
during the webinar.

http://hsmm-mesh.org/news.html
http://www.kdream.com/hsmm/HSMM_Seminar2011-01-08.pdf

Regards,
David
WD5M

On Sun, Jan 9, 2011 at 1:15 PM, Mark <wb9qzb_groups@...> wrote:

> Unfortunately I did not notice the webinar announcement on QRZ & only saw
> this announcement in the group's digest a day after it occurred.
>
> Was the webinar recorded & if so, is it a available to watch?
>
> 73, Mark, WB9QZB
>
>
>
>
>

1988. New-bee question

Yahoo group: DAWG-HSMM
Date: 2011-01-09 21:35:30 UTC
From: Paul Mulford
Topic: 1988 Message: 1988

Hello all being the new-bee I guess it is time for the dumb question. Knowing that most development has been done in the Lynksys box, I have a couple of Netgear 614v6, units are they unusable, very hard to use, or pitch them??

_ _ HIMSELF _ _

Definition of a Veteran

"A veteran - whether active duty, retired, National Guard or Reserve -

is someone who at one point in his life wrote a blank check made payable

to the United States of America for an amount of 'up to and including my

life.'

That is honor. There are far too many people in this country who don't

understand it. -- "

Well 73 to you and yours, you have a good day and may we meet farther

down the log.

From the QTH of the Extra Light Paul KC8YHW Mulford

1989. Re: [ntms-hsmm] New-bee question

Yahoo group: DAWG-HSMM
Date: 2011-01-10 00:52:29 UTC
From: Robert Ellis
Topic: 1988 Message: 1989

The netgear 614v6 seems to have only 1M of flash, as noted here:
http://www.dd-wrt.com/wiki/index.php/Known_incompatible_devices#List_of_Incompatible_Devices
(While this page lists incompatible devices for DDWRT, which is not HSMM-MESH, it does list why some aren't supported, such as the 1M flash in the 614v6's case.)

HSMM-MESH needs a minimum of a 4M flash.

The list of routers on which hsmm-mesh is supported can be seen here:
http://hsmm-mesh.org/download/firmware/index.html

Not seen on this page are the particular versions of the hardware on which HSMM-MESH is supported. For example, WRT54Gv5 has a 2M flash, and HSMM-MESH is not supported on that model. Unfortunately, I don't know of a web page which states which versions of a particular router are supported.

I do know that HSMM-MESH is supported on all versions of the WRT54GL.

Just because HSMM-MESH isn't supported on the 614 doesn't mean you can't use it. You may find it useful, in some future field day event, to connect one of your 614s to an HSMM-MESH node with an ethernet cable, providing access to an HSMM-MESH network for a bunch of laptops.

fyi,
robert

On Jan 9, 2011, at 3:35 PM, Paul Mulford wrote:

>
>
> Hello all being the new-bee I guess it is time for the dumb question. Knowing that most development has been done in the Lynksys box, I have a couple of Netgear 614v6, units are they unusable, very hard to use, or pitch them??
>
> _ _ HIMSELF _ _
>
> Definition of a Veteran
> "A veteran - whether active duty, retired, National Guard or Reserve -
> is someone who at one point in his life wrote a blank check made payable
> to the United States of America for an amount of 'up to and including my
> life.'
>
> That is honor. There are far too many people in this country who don't
> understand it. -- "
>
> Well 73 to you and yours, you have a good day and may we meet farther
> down the log.

>
> From the QTH of the Extra Light Paul KC8YHW Mulford
>
>
>
>

1990. Re: [ntms-hsmm] New-bee question

Yahoo group: DAWG-HSMM
Date: 2011-01-10 00:54:44 UTC
From: kevin asato
Topic: 1988 Message: 1990

Hi Paul,
I've wondered the same thing. On the basis of things, it appears that the Netgear WGR614L is modifyable in the same manner as the Linksys Wi-Fi routers as the basic hardware is there. Similar loads for the WGR exist on MyOpenRouter.com (DD-WRT, Tomato, OpenWRT) as used in the Linksys router. Whatever modules needing to be added in for hsmm use can probably just be recompiled into the image and executed. I just have not had the opportunity to download new firmware on my WGR as my work and personal life have been busy of late.

73,
kevin
kc6pob

--- On Sun, 1/9/11, Paul Mulford <kc8yhw@...> wrote:

From: Paul Mulford <kc8yhw@...>
Subject: [ntms-hsmm] New-bee question
To: ntms-hsmm@yahoogroups.com
Date: Sunday, January 9, 2011, 1:35 PM

Hello all being the new-bee I guess it is time for the dumb question. Knowing that most development has been done in the Lynksys box, I have a couple of Netgear 614v6, units are they unusable, very hard to use, or pitch them??

_ _ HIMSELF _ _

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understand it. -- "

Well 73 to you and yours, you have a good day and may we meet farther

down the log.

From the QTH of the Extra Light Paul KC8YHW Mulford

1991. Thank you gentelmen

Yahoo group: DAWG-HSMM
Date: 2011-01-10 01:32:04 UTC
From: Paul Mulford
Topic: 1991 Message: 1991

From the answers I received, it appears that there are hardware limitations on the Netgear units I have.

The reason I had the netgear in the first place was (are you ready for this) was to split a Dial-up connection for the XYL and myself. At thanksgiving we got a MiFi unit from Sprint is that ever fast compared to dial-up.

_ _ HIMSELF _ _

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is someone who at one point in his life wrote a blank check made payable

to the United States of America for an amount of 'up to and including my

life.'

That is honor. There are far too many people in this country who don't

understand it. -- "

Well 73 to you and yours, you have a good day and may we meet farther

down the log.

From the QTH of the Extra Light Paul KC8YHW Mulford

1992. Re: [ntms-hsmm] New-bee question

Yahoo group: DAWG-HSMM
Date: 2011-01-10 01:39:23 UTC
From: Glenn Currie
Topic: 1988 Message: 1992

The Netgear WGR614L is not directly supported by HSMM-MESH.

Look closely at the binary code on hsmm-mesh.org. Other VERY similar hardware is supported. All the supported routers are based on the same chip. The build tools are set up to build code based on the core chip a router is based on.

We have one user that has made use of the binary for a Motorola branded wireless router. The binary is on the web page, but he found he had to change the header in the file to get it to load into the "improved" Motorola hardware.

For a number of reasons the developers have chosen to focus on the WRT54G series of wireless routers at this time. The code could run on other hardware, but it we are faced with resource constraints.

If someone wants to port to other hardware, they are welcome to go for it. If you do the port, you will become the expert on that version of the code. It can be done. The question has been asked many times over the past years, and so far, no one has successfully ported to other hardware and checked their source code back into the source code control system.

So other hardware can be supported but porting the code is not an easy task. There are hundreds of changes to the original code and it takes a while to get the build system set up, make all the necessary changes, get the code checked in - and field test it, before formal release. We are tapped out supporting the current hardware.

We would like to port the code to new hardware and the Ubuiqiti line of equipment seems the way to go for a number of reasons.

See:

<http://www.ubnt.com>

All of us or volunteers. So work on what interests you. We get used but working Linksys WRT54G series routers from the local second hand store, Goodwill Computer works for $27.01 including tax, and have a long feature list to add to the code, so it has not seemed worth the effort to port hardware for our needs. We are hard pressed to try to support the current hardware.

I wish we could support all the workable hardware, but we just do not have the resources at this time.

-Glenn

--- On Sun, 1/9/11, kevin asato <kc6pob@...> wrote:

From: kevin asato <kc6pob@...>
Subject: Re: [ntms-hsmm] New-bee question
To: ntms-hsmm@yahoogroups.com

Date: Sunday, January 9, 2011, 6:54 PM

Hi Paul,
I've wondered the same thing. On the basis of things, it appears that the Netgear WGR614L is modifyable in the same manner as the Linksys Wi-Fi routers as the basic hardware is there. Similar loads for the WGR exist on MyOpenRouter.com (DD-WRT, Tomato, OpenWRT) as used in the Linksys router. Whatever modules needing to be added in for hsmm use can probably just be recompiled into the image and executed. I just have not had the opportunity to download new firmware on my WGR as my work and personal life have been busy of late.

73,
kevin
kc6pob

--- On Sun, 1/9/11, Paul Mulford <kc8yhw@...> wrote:

From: Paul Mulford <kc8yhw@...>
Subject: [ntms-hsmm] New-bee question
To:
ntms-hsmm@yahoogroups.com
Date: Sunday, January 9, 2011, 1:35 PM

Hello all being the new-bee I guess it is time for the dumb question. Knowing that most development has been done in the Lynksys box, I have a couple of Netgear 614v6, units are they unusable, very hard to use, or pitch them??

_ _ HIMSELF _ _

Definition of a Veteran

"A veteran - whether active duty, retired, National Guard or Reserve -

is someone who at one point in his life wrote a blank check made payable

to the United States of America for an amount of 'up to and including my

life.'

That is honor. There are far too many people in this country who don't

understand it. -- "

Well 73 to you and yours, you have a good day and may we meet farther

down the log.

From the QTH of the Extra Light Paul KC8YHW Mulford

1993. RE: [ntms-hsmm] Re: Webinar Announced on QRZ

Yahoo group: DAWG-HSMM
Date: 2011-01-10 02:00:22 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 1985 Message: 1993

Many thanks to those who organized, presented and facilitated the Webinar.

It was interesting and will trigger some movement in our area.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: ntms-hsmm@yahoogroups.com [mailto:ntms-hsmm@yahoogroups.com] On Behalf
Of David McAnally
Sent: Sunday, January 09, 2011 7:45 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Re: Webinar Announced on QRZ

I believe the webinar was recorded, and the link will be published later.

They updated the hsmm-mesh news page with a link to the slide show pdf used
during the webinar.

http://hsmm-mesh.org/news.html

http://www.kdream.com/hsmm/HSMM_Seminar2011-01-08.pdf

Regards,

David

WD5M

On Sun, Jan 9, 2011 at 1:15 PM, Mark <wb9qzb_groups@...> wrote:

Unfortunately I did not notice the webinar announcement on QRZ & only saw
this announcement in the group's digest a day after it occurred.

Was the webinar recorded & if so, is it a available to watch?

73, Mark, WB9QZB

1994. Re: Webinar Announced on QRZ

Yahoo group: DAWG-HSMM
Date: 2011-01-11 17:04:51 UTC
From: kb1tce
Topic: 1985 Message: 1994

Thanks also from up here in Maine. I'm totally new to this and I learned a lot from the webinar and the timing was excellent. I am now in the process of configuring an old WRT54GS that I had hanging around. I also recently got a pair of Ubiquiti PicoStation2HPs to play with. It looks like I can do a fair amount with their AirOS firmware and there is a compatible 3rd party mesh firmware.

I did hear a mention that the Ubiquiti Bullet was end of life but on their forum a while back a Ubiquiti person said that is not true.

73,
Steve, KB1TCE

1995. Re: [ntms-hsmm] Re: Webinar Announced on QRZ

Yahoo group: DAWG-HSMM
Date: 2011-01-11 21:02:17 UTC
From: Kipton Moravec
Topic: 1985 Message: 1995

On Tue, 2011-01-11 at 17:04 +0000, kb1tce wrote:
> Thanks also from up here in Maine. I'm totally new to this and I learned a lot from the webinar and the timing was excellent. I am now in the process of configuring an old WRT54GS that I had hanging around. I also recently got a pair of Ubiquiti PicoStation2HPs to play with. It looks like I can do a fair amount with their AirOS firmware and there is a compatible 3rd party mesh firmware.
>
> I did hear a mention that the Ubiquiti Bullet was end of life but on their forum a while back a Ubiquiti person said that is not true.
>
> 73,
> Steve, KB1TCE
>
>

I was told at the Webinar that the $40 Ubiquiti device was end of life,
but the $80 Ubiquiti device was continuing.

Dave is working on getting the HSMM-MESH software to work on it next.

Rusty is working on an Airlink model that Fry's was selling new for less
than $25. It is also a different chipset than the Broadcom chipset,
which could open HSMM-MESH up to a wider set of routers.

Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

1996. Re: Webinar Announced on QRZ

Yahoo group: DAWG-HSMM
Date: 2011-01-11 21:57:58 UTC
From: kb1tce
Topic: 1985 Message: 1996

Thanks Kip. That makes more sense. Appreciate the heads up on the other items too. Not sure how different the PicoStation2HP is from the Bullet but they are in the same price range.

Steve, KB1TCE

--- In ntms-hsmm@yahoogroups.com, Kipton Moravec <kip@...> wrote:

> I was told at the Webinar that the $40 Ubiquiti device was end of life,
> but the $80 Ubiquiti device was continuing.
>
> Dave is working on getting the HSMM-MESH software to work on it next.
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>
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> --
> Kipton Moravec AE5IB .- . ... -...
>
> "Always do right; this will gratify some people and astonish the rest."
> --Mark Twain
>

1997. Re: [ntms-hsmm] Re: Webinar Announced on QRZ

Yahoo group: DAWG-HSMM
Date: 2011-01-11 22:35:56 UTC
From: Glenn Currie
Topic: 1985 Message: 1997

The lower cost bullet is 802.11b/g and is being closed out.

The higher priced bulletHP is 802.11b/g/n and is a current device.

-Glenn
KD5MFW

--- On Tue, 1/11/11, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: Re: [ntms-hsmm] Re: Webinar Announced on QRZ
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, January 11, 2011, 3:02 PM

On Tue, 2011-01-11 at 17:04 +0000, kb1tce wrote:

> Thanks also from up here in Maine. I'm totally new to this and I learned a lot from the webinar and the timing was excellent. I am now in the process of configuring an old WRT54GS that I had hanging around. I also recently got a pair of Ubiquiti PicoStation2HPs to play with. It looks like I can do a fair amount with their AirOS firmware and there is a compatible 3rd party mesh firmware.

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Kip

--

Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."

--Mark Twain

1998. Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-18 21:27:04 UTC
From: Jerry K
Topic: 1998 Message: 1998

I'm wiring my new office location and I want to piggy back 2 telco lines in with my ethernet cat5e cable. I've must have looked at a dozen web pages telling me how to do this. Now I'm terribly confused. Suggest to me what the pinout to color wire ought to be please.

1999. Re: [ntms-hsmm] Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-18 21:30:51 UTC
From: Dave
Topic: 1998 Message: 1999

I would just run a 2nd cat5 cable if you can.

Your asking for cross talk nightmare.

What Speed do you what to run at 10,100,1000?

On Tue, Jan 18, 2011 at 4:27 PM, Jerry K <kd5oldman@...> wrote:

>
>
> I'm wiring my new office location and I want to piggy back 2 telco lines in
> with my ethernet cat5e cable. I've must have looked at a dozen web pages
> telling me how to do this. Now I'm terribly confused. Suggest to me what the
> pinout to color wire ought to be please.
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>
>

--
Dave Wallace II
*WorldBridge Partners** *
*WorldConcert RPO** **
**davidwallace@worldbridgepartners.com
Phone: (502) 614-4003**

**WorldBridge Partners **is **an Executive Search Firm that assists companies worldwide in locating and hiring top echelon industry leaders. We have nine locations and over 100 Recruiters providing our clients and candidates with global access to management talent. *

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2000. Re: Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-18 23:33:52 UTC
From: Jerry K
Topic: 1998 Message: 2000

tnx. that's what I had planned to do in the first place until somebody suggested doubling up. I have about 250' of cat5e so I have plenty of cable.

Jerry

--- In ntms-hsmm@yahoogroups.com, Dave <wallyhts@...> wrote:
>
> I would just run a 2nd cat5 cable if you can.
>
> Your asking for cross talk nightmare.
>
> What Speed do you what to run at 10,100,1000?
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2001. Re: [ntms-hsmm] Re: Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-18 23:53:45 UTC
From: Dennis Christensen
Topic: 1998 Message: 2001

Jerry,
From personal experience I can tell you that it
Would work with 10, but not 100 or 1000.

Dennis Christensen

On Jan 18, 2011, at 5:33 PM, "Jerry K" <kd5oldman@...> wrote:

>
> tnx. that's what I had planned to do in the first place until somebody suggested doubling up. I have about 250' of cat5e so I have plenty of cable.
>
> Jerry
>
> --- In ntms-hsmm@yahoogroups.com, Dave <wallyhts@...> wrote:
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2002. Re: [ntms-hsmm] Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-19 00:01:01 UTC
From: Richard Yoo
Topic: 1998 Message: 2002

I have had no problem mixing POTS and ethernet on Cat5... I've done it all the time with Cat3 with POTS and ethernet as well... you will not get crosstalk. The POTS spec is Cat1 and the freqs that ethernet is using is undetectable for xtalk.I believe the distance limit for ethernet is 100meters or about 300ft - that includes all path cable lengths included.

But this will only work for 10baseT or 100baseT... as 1000baseT (gigabit ethernet) uses all 4 pairs.

if you're only running 10/100baseT you can use the unused pairs... which I belive are the center two pins (3/4) and left outer (7/8)... which colors, depends on which color scheme you're using.

With that said - I think that running a 2nd run is better and easier... and less confusing.

Additionally, I would isolate the pairs you're using at both ends with different jacks... in that you only use two pairs to run your 10/100baseT in the cat5 cable for ethernet... and wire separate jacks for the POTS... that way if you do happen to connect a 1000baseT device into the jack, you won't be hooking it up to the POTS pairs.

Good Luck,

-Richard, N5YOO

Visit my blog at http://www.richardyoo.com
Share your photos at http://www.natuba.com

On Tue, Jan 18, 2011 at 3:27 PM, Jerry K <kd5oldman@...> wrote:
> I'm wiring my new office location and I want to piggy back 2 telco lines in with my ethernet cat5e cable. I've must have looked at a dozen web pages telling me how to do this. Now I'm terribly confused. Suggest to me what the pinout to color wire ought to be please.
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2003. Re: [ntms-hsmm] Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-19 00:09:44 UTC
From: Dave
Topic: 1998 Message: 2003

Also if you ever chose to run POE phones no rewiring.

Perhaps crosstalk was the wrong word when I tried it i heard a lot of noise on the phone lines.

I love my polycom phones at the office. May want to check out good-old asterisk

On Tue, Jan 18, 2011 at 7:01 PM, Richard Yoo <richardyoo@gmail.com> wrote:

>
>
> I have had no problem mixing POTS and ethernet on Cat5... I've done it
> all the time with Cat3 with POTS and ethernet as well... you will not
> get crosstalk. The POTS spec is Cat1 and the freqs that ethernet is
> using is undetectable for xtalk.I believe the distance limit for
> ethernet is 100meters or about 300ft - that includes all path cable
> lengths included.
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> device into the jack, you won't be hooking it up to the POTS pairs.
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> Good Luck,
>
> -Richard, N5YOO
>
> ---
> Visit my blog at http://www.richardyoo.com
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>
>
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2004. Re: [ntms-hsmm] Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-19 00:36:37 UTC
From: Richard Yoo
Topic: 1998 Message: 2004

Noise would be x-talk...

Perhaps there was a different problem? Ethernet was designed to run over
Cat3 (10baseT) and Cat5 (100BaseT) with no issues with x-talk... the idea
was to share the same cabling plant in large buildings with phone.

In my experience it works fine - I wonder if there was a bad ground
somewhere or a short...

-richard, n5yoo

Visit my blog at http://www.richardyoo.com
Share your photos at http://www.natuba.com

On Tue, Jan 18, 2011 at 6:09 PM, Dave <wallyhts@...> wrote:

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> Also if you ever chose to run POE phones no rewiring.
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2005. Re: Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-19 01:07:21 UTC
From: ag5rs
Topic: 1998 Message: 2005

I would suggest a second cable. Here is why -- the lower speeds of 10 and 100 Mb/s Ethernet have a spare pair. But when you step up to either Power over Ethernet (PoE) or to 1000 Mb/s speed, that spare pair goes away.

If you want two phone lines you need two pairs for them. So even if you used the low speed free pairs then you still come up one pair short.

If you are worried about cost, you could run one Cat 5e and one Cat 3. That is what I did in the last three offices I have wired. On the Cat 3, the cost of 3 pair vs 2 pair is negligible and I recommend the 3 pair. That allows you to have a spare pair for anything. In the past I have used that spare for a third phone line for fax,an alarm loop, a doorbell, etc.

When you wire the Cat 5e, use the T568B (as in Bravo) wiring configuration. It is not terribly important these days whether you use A or B, but B is the "official" one for the use you are describing and is the most universal.

One final thought; if you are wondering "why would I ever need 1000 Mb/s speed?" here is the answer in my case. It is really nice when I wanted to put the external hard drives in a separate place. That is quieter and I can put them on an ugly old UPS I picked up cheap. It all improves the spousal approval factor.

Hope this is helpful,
Ron, AG5RS

--- In ntms-hsmm@yahoogroups.com, Richard Yoo <richardyoo@...> wrote:
>
> Noise would be x-talk...
>
> Perhaps there was a different problem? Ethernet was designed to run over
> Cat3 (10baseT) and Cat5 (100BaseT) with no issues with x-talk... the idea
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> >> if you're only running 10/100baseT you can use the unused pairs...
> >> which I belive are the center two pins (3/4) and left outer (7/8)...
> >> which colors, depends on which color scheme you're using.
> >>
> >> With that said - I think that running a 2nd run is better and
> >> easier... and less confusing.
> >>
> >> Additionally, I would isolate the pairs you're using at both ends with
> >> different jacks... in that you only use two pairs to run your
> >> 10/100baseT in the cat5 cable for ethernet... and wire separate jacks
> >> for the POTS... that way if you do happen to connect a 1000baseT
> >> device into the jack, you won't be hooking it up to the POTS pairs.
> >>
> >> Good Luck,
> >>
> >> -Richard, N5YOO
> >>
> >> ---
> >> Visit my blog at http://www.richardyoo.com
> >> Share your photos at http://www.natuba.com

> >>
> >>
> >> On Tue, Jan 18, 2011 at 3:27 PM, Jerry K <kd5oldman@...<kd5oldman%40gmail.com>>
> >> wrote:
> >> > I'm wiring my new office location and I want to piggy back 2 telco lines
> >> in with my ethernet cat5e cable. I've must have looked at a dozen web pages
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2006. Re: [ntms-hsmm] Re: Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-19 01:16:23 UTC
From: Richard Yoo
Topic: 1998 Message: 2006

On Tue, Jan 18, 2011 at 7:07 PM, ag5rs <rls@...> wrote:
> I would suggest a second cable. Here is why -- the lower speeds of 10 and 100 Mb/s Ethernet have a spare pair. But when you step up to either Power over Ethernet (PoE) or to 1000 Mb/s speed, that spare pair goes away.

There are 2 spare pairs in 10/100 ethernet... not one. a typical Cat5
bundle has 4 pairs... blue, green, orange, brown. 10/100 ethernet
only require two pairs.

http://en.wikipedia.org/wiki/Ethernet_over_twisted_pair

> If you want two phone lines you need two pairs for them. So even if you used the low speed free pairs then you still come up one pair short.

This is incorrect - You can run two phone lines, in one 4-pair cat5
bundle. 2-pairs for ethernet, one pair each for phone lines

-Richard, N5YOO

2007. Re: [ntms-hsmm] Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-19 02:13:51 UTC
From: Kelly Martin-AB9RF
Topic: 1998 Message: 2007

For both 568A and 568B, green/green-white and orange/orange-white are used by Ethernet and Fast Ethernet; blue/blue-white and brown/brown-white are used only for power over Ethernet. Gigabit Ethernet uses all four pairs. Piggybacking can cause problems, especially when the telephone rings: the 90V AC pulse that is sent to cause the phone to ring can induce enough voltage in the data pairs to temporarily disrupt the connection.

I don't recommend doing this because it limits you to Fast Ethernet without POE, which will really bite you in the ass when you decide to get a VOIP system with POE phones (virtually all VOIP systems use POE phones) down the road. Cat5 is what, 4 cents a foot? The cost of not buying a second spool of Cat5 isn't worth the hassle down the road when you discover that your frugality has limited your options too much.

Kelly

On Tue, Jan 18, 2011 at 3:27 PM, Jerry K <kd5oldman@...> wrote:

>
>
> I'm wiring my new office location and I want to piggy back 2 telco lines in
> with my ethernet cat5e cable. I've must have looked at a dozen web pages
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>
>

2008. Re: [ntms-hsmm] Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-19 02:28:08 UTC
From: Bob Scanferla
Topic: 1998 Message: 2008

Or maybe there were split pairs. the twisting of the pairs together is to help address the noise issues you need to make sure you are using a pair of conductors that are twisted together.

From: Richard Yoo <richardyoo@...>
To: ntms-hsmm@yahoogroups.com
Sent: Tue, January 18, 2011 7:36:37 PM
Subject: Re: [ntms-hsmm] Cat 5 question?

Noise would be x-talk...

Perhaps there was a different problem? Ethernet was designed to run over Cat3 (10baseT) and Cat5 (100BaseT) with no issues with x-talk... the idea was to share the same cabling plant in large buildings with phone.

In my experience it works fine - I wonder if there was a bad ground somewhere or a short...

-richard, n5yoo

Visit my blog at http://www.richardyoo.com
Share your photos at http://www.natuba.com

On Tue, Jan 18, 2011 at 6:09 PM, Dave <wallyhts@...> wrote:

>
>Also if you ever chose to run POE phones no rewiring.
>
>Perhaps crosstalk was the wrong word when I tried it i heard a lot of noise on
>the phone lines.
>
>I love my polycom phones at the office. May want to check out good-old asterisk
>
>
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>
>On Tue, Jan 18, 2011 at 7:01 PM, Richard Yoo <richardyoo@...> wrote:
>
>
>>I have had no problem mixing POTS and ethernet on Cat5... I've done it
>>all the time with Cat3 with POTS and ethernet as well... you will not
>>get crosstalk. The POTS spec is Cat1 and the freqs that ethernet is

>>using is undetectable for xtalk.I believe the distance limit for
>>ethernet is 100meters or about 300ft - that includes all path cable
>>lengths included.
>>
>>But this will only work for 10baseT or 100baseT... as 1000baseT
>>(gigabit ethernet) uses all 4 pairs.
>>
>>if you're only running 10/100baseT you can use the unused pairs...
>>which I belive are the center two pins (3/4) and left outer (7/8)...
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2009. Re: [ntms-hsmm] Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-19 06:25:41 UTC
From: kevin asato
Topic: 1998 Message: 2009

Noise can also be Near End Cross Talk from the Ethernet transmit side at the NIC overloading the receive side, not just what is introduced from the surrounding environment. This can be controlled when crimping connectors or punching down on blocks by unwrapping as little of the twists as possible to maintain the balance in the pair. In addition to common mode noise rejection, the twists in the ethernet wiring contribute to the characteristic (transmission) line impedance which also contributes to the distance (100 meters) that the signal can be driven.
Twisted pair wiring is for common mode noise rejection. This is what is also what is used in (non musical) instrument wiring, communications circuits as RS-422/485 and synchronous serial (RS-449, RS-530, V.35), and low impedance microphone circuits for public address and music applications.
I have successfully mixed POTS and 10/100 Ethernet on the same 4-pair cable to no detriment using the blue and brown pairs. The only disadvantage is that it will not allow expansion capabilities to 1G Ethernet.

73,kevinkc6pob
--- On Tue, 1/18/11, Bob Scanferla <va3rjs@yahoo.ca> wrote:

From: Bob Scanferla <va3rjs@...>
Subject: Re: [ntms-hsmm] Cat 5 question?
To: ntms-hsmm@yahoogroups.com
Date: Tuesday, January 18, 2011, 6:28 PM

Or maybe there were split pairs. the twisting of the pairs together is to help address the noise issues you need to make sure you are using a pair of conductors that are twisted together.

2010. Re: [ntms-hsmm] Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-19 15:09:26 UTC
From: Patrick Soileau ND5C
Topic: 1998 Message: 2010

Greetings!

Based upon my experience years ago in an interconnect company,
the only thought I'd like to share is... WIRE IS CHEAP!

When you have the walls open is THE time to run wire... and plenty of it!

No one ever said that you had to terminate ALL the cable pairs that
you run in a building. You can just leave them in the walls "lurking"
for a day when the might be used.

The last new construction building I did was a physical therapy complex
for a doctor. The designer was not sure where they wanted to place the
various items of furniture and equipment in each room. The phone system
used three (3) pair wire. We ran two (2) six pair drops on each wall in
every room. These were all terminated at a block in an equipment closet
where they were cross-connected to the incoming lines to make the
various extensions active. This proved to be a really good strategy as
they were constantly re-arranging the room layouts. This forethought
cost about $50 in wire and just a few hours labor. We didn't end up saving
the doc big bucks, however, in the end. The lady who managed the building
decided that she wanted her desk in the center of a room, with the phone
drop in the concrete floor, despite the fact that she was surrounded by
eight (8) wall drops. Yup, move the carpet, bust the concert, we can do
it... for about $1,000!

If you want to have a network drop in a particular location, run TWO cables.
For phone, you might consider running at least one or two more... or if
you're planning on staying with POTS for a while, but are uncertain as to
what your needs are, you might consider running a multi-pair cable to
each location, like maybe a six-pair or twelve-pair.

Remember, it's really easy to wire a building while the walls are still open.
Take advantage of this and run everything you can think of at that time.

For the last few networking jobs I did, my recommendation was to run
three (3) CAT-5 cables to each proposed network access location. This
turned out to be really beneficial when the customer relocated equipment.
In the meantime, the "dead" wire was just lying in the walls waiting to be
used. All we had to do was terminate the end with an RJ-45, connect it
to the switch, then connect the remote end to the RJ-45 jack in the wall.

73,

Pat ND5C

2011. Re: [ntms-hsmm] Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-19 15:29:42 UTC
From: Kelly Martin-AB9RF
Topic: 1998 Message: 2011

I'm with Pat on this. When my department moved into a new space, I had four Cat5 drops put at each operating position. That decision paid off several times. The cost of running four cables is barely more than that of running one. Almost all of your cost is labor anyway and most of the effort in any cable run is in routing the run; once that's done pulling multiple cables is barely any more than the cost as pulling one.

Also, whatever you do, use punchdown blocks. Don't do like so many places I've seen have done and have cables terminated with RJ-45s hanging out of walls. RJ-45 plugs break fairly easily, and if you do this you'll end up, eventually, with a cable that's too short to reach, requiring a splice connector or some other insanity, because you've had to repeatedly cut off broken plugs and reterminate the cable. RJ-45 plugs have relatively limited insertion lifecycles (the plastic tang that holds them breaks fairly easily), but RJ-45 jacks are quite robust and will last a very long time if not abused. So please please please punch down all cable terminations into a distribution panel or other punchdown termination (even if it's just an RJ-45 biscuit), and use an easily-replaced patch cable for the last bit of the connection.

Kelly

On Wed, Jan 19, 2011 at 9:09 AM, Patrick Soileau ND5C <patrick@...>wrote:

>
>
>
> Greetings!
>
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> every room. These were all terminated at a block in an equipment closet
> where they were cross-connected to the incoming lines to make the
> various extensions active. This proved to be a really good strategy as
> they were constantly re-arranging the room layouts. This forethought

> cost about $50 in wire and just a few hours labor. We didn't end up saving
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> to the switch, then connect the remote end to the RJ-45 jack in the wall.
>
> 73,
>
> Pat ND5C
>
>
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>

2012. Re: [ntms-hsmm] Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-19 15:46:05 UTC
From: Patrick Soileau ND5C
Topic: 1998 Message: 2012

Kelly,

Thank you for clarifying my point about using the 66 blocks!

One other point (pretty much in keeping with my original "wire is cheap" point, however)....

Insist that there be at least a full foot (or two) of wire extending out the hole in the wall.

I've seen more phone guys fight with trying to attach a connect block while working jammed up against the wall because the guy who put it in decided to save $0.03 worth of wire. A foot or two of wire protruding from the wall makes it very easy to make connections and is easy to just stuff back in the wall. Also, should you decide you'd like to move the jack just a bit one way or another, it can make things much, much easier.

73,

Pat ND5C

From: Kelly Martin-AB9RF <ab9rf@ab9rf.com>
Subject: Re: [ntms-hsmm] Cat 5 question?
To: ntms-hsmm@yahoogroups.com
Date: Wednesday, January 19, 2011, 9:29 AM

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73,

Pat ND5C

2013. Re: Cat 5 question?

Yahoo group: DAWG-HSMM
Date: 2011-01-19 16:29:39 UTC
From: h0chus_p0ckus
Topic: 1998 Message: 2013

I'd also vote for running two bundles.

1-To keep your options open for gigabit ethernet, power over ethernet, and spare pairs AND a future third phone line (never say never)

2-Because you know at some point, someone is going to come in to fix or move something on the phone or network, and when Mr. Murphy finds all those extra wires...the odds of bringing it all crashing down get much better when you've done "unconventional" wiring. Also, if someone has to mess with the phones, or the computers, they just disrupt one system--not both.

"Hardware's cheap" [A young Bill Gates]

--Red

2014. FW: Doodle Labs releases sub-GHz broadband radio modules

Yahoo group: DAWG-HSMM
Date: 2011-01-20 12:07:13 UTC
From: John K Scoggin Jr (W3JKS/AAT3BF)
Topic: 2014 Message: 2014

How about some OFDM data on the 70cm band? :-) Kind of similar to the Ubiquiti line from the look of it.

73,

john

John K Scoggin, Jr. W3JKS/AAT3BF/AAM3EDE/AAM3RE/AAA9SL
US Army Military Auxiliary Radio System
Delaware Gateway Station AAB3DE
Special Consultant - Technology

Emergency Operations Officer ☐ DE and Region 3
☐Old RADEF Officers never die, they simply decay exponentially ☐

Chief Engineer
Mobile Communications Unit 37 (AAT3CAD/W3MCU)

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ARRL Assistant Section Manager ☐ Delaware

Member, AMSAT and Radio Society of Great Britain
Email: aat3bf@...
Telephone: (302) 451-5000

"There is a very fine line between a hobby and mental illness ..." - Dave Barry

---

From: Doodle Labs [mailto:enquiry=doodlelabs.com@...] On Behalf Of Doodle Labs
Sent: Wednesday, January 19, 2011 5:34 PM
To: John Scoggin
Subject: Doodle Labs releases sub-GHz broadband radio modules

<http://www.ten21group.com/uploads/6/0/7/1/6071975/6309981.png>

Doodle Labs announces

Nexus Prism: OFDM Broadband Radio platform for sub-GHz bands

January 19, 2011

Singapore - Doodle Labs announces the launch of its Nexus Prism platform of high performance, embedded broadband radio modules that collectively span

the 335 MHz to 960 MHz range. The Nexus Prism is a software-programmed frequency-translation technology that enables OEMs access to licensed Industrial, Military, and TV White Space spectrums.

<http://doodlelabs.com/images/stories/DL_images/prod_minipci_hp.jpg>
Ashish Parikh, VP of Business Development in North America, commented, "With the launch of the Nexus Prism platform, Doodle Labs has a broadband radio module offering at nearly every frequency from sub-GHz up to 6 GHz. OEMs operating in licensed band spectrums now have a higher performing broadband solution than what is currently out in the market. Furthermore, we're excited to be first-movers to address the TV White Space spectrum opening up."

Doodle Labs radios are designed to deliver high performance in long-range outdoor applications. Nexus Prism modules feature advanced filtering techniques that lead to the industry's highest in-band interference immunity. In addition, the modules deliver up to 1000 mW (30 dBm) transmit power, which allows for greater distance and throughput than the closest competitors. High receive sensitivity enables improved range in obstacle-rich environments and offers near line of sight capability.

Mr. Parikh added, "The Nexus Prism platform of cards is particularly well suited for OEMs engaging in the defense and industrial spaces." The 20 Mbps TCP/IP actual data throughput combined with the high transmit power enable a new set of video surveillance and manpack devices operating at distances up to 20-25 miles. In addition, the Industrial/MIL-spec design (-40C ~ +85C) and enhanced resilience to RF surges and ESD make the radio ideal for deployment in harsh environments.

Please visit doodlelabs.com/products-and-services.html
<http://doodlelabs.us2.list-manage1.com/track/click?u=42c8e5f7cc3ce4cd1492f9e54&id=f4c5714c70&e=83ab36e456> for further information. Nexus Prism modules are currently available in limited quantities with strategic partners, and will be available for general orders in about 6 weeks.

Doodle Labs' radio module suite:

Frequency Range

Application

Model Number

350 □ 470 MHz

Federal Government, Military, TV White Space

DLM 119

470 □ 520 MHz

DLM 120

510 ☐ 610 MHz

DLM 121

600 ☐ 700 MHz

DLM 122

690 ☐ 810 MHz

DLM 114

790 ☐ 890 MHz

DLM 115

890 ☐ 960 MHz

DLM 116

902 ☐ 928 MHz

ISM

DLM 108

2.4 GHz 1

802.11 b/g

DLM 107

2.4 GHz

DLM 106

4.4 ☐ 5.0 GHz

NATO / Military

DLM 125

4.8 ☐ 5.0 GHz 1,2

Public Safety

DLM 110

4.9 GHz

DLM 111

5.7 ☐ 5.9 GHz

ISM UNI-III; Vehicles (ITS)

DLM 117

5.1 ☐ 5.9 GHz 1,2

802.11 a

DLM 103

5.1 ☐ 5.9 GHz

DLM 105

1 ☐ RJ45/RS232 interface; all others mini-PCI
2 ☐ Lower transmit power (25 dBm)

About Doodle Labs ☐

Doodle Labs is a wireless technology development company that focuses on the design and manufacturing of high-performance, Industrial/Military-grade wireless IP radio modules and systems. Doodle LabsÕ products help OEMs to leverage cost-effective wireless broadband technology to enable cutting-edge applications. Doodle Labs is a privately held company with headquarters in Singapore and offices in California, USA and India.

For additional information, please send an email to enquiries@doodlelabs.com.

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Fax: +65 6353 5564

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<http://doodlelabs.us2.list-manage1.com/profile?u=42c8e5f7cc3ce4cd1492f9e54&id=1f8213c3fe&e=83ab36e456> profile | forward
<http://us2.forward-to-friend.com/forward?u=42c8e5f7cc3ce4cd1492f9e54&id=d967121b16&e=83ab36e456> to a friend

<http://doodlelabs.us2.list-manage.com/track/open.php?u=42c8e5f7cc3ce4cd1492f9e54&id=d967121b16&e=83ab36e456>

2016. Request for Coax Connector Crimping Tool Opinions and/or Recommendations

Yahoo group: DAWG-HSMM
Date: 2011-01-19 03:57:03 UTC
From: Patrick Soileau ND5C
Topic: 2016 Message: 2016

Greetings!

I'd like to pursue obtaining the tools needed to crimp coax connectors (BNC, PL-259, SMA) on the most common types and sizes of coaxial cable (RG-58, RG-59, RG-6, RG-8, RG-174).

Looking through the various catalog available online has left me a bit dazed and confused as to which route to go... a single tool with interchangeable dies or multiple (2,3,4) tools each covering maybe 2-3 cable sizes/types and/or connector types.

Does anyone have any suggestions, recommendations, and/or opinions that they would care to share?

This is strictly for amateur radio use, so there is no real need for an extremely heavy duty tool as would be needed by a a two-way radio technician in daily usage.

Please be sure to copy Pat@... on your response.

Thanks!

73,

Pat ND5C

2017. Re: Request for Coax Connector Crimping Tool Opinions and/or Recommendations

Yahoo group: DAWG-HSMM
Date: 2011-01-21 20:14:32 UTC
From: kb9mwr
Topic: 2016 Message: 2017

I recommend the Eclipse 500-001 Coax Crimping Kit. Its about $90, bit has everything I have ever needed.

Google it, a lot of different places sell it now-days, there may even be other generic knockoffs.

Steve, KB9MWR

--- In ntms-hsmm@yahoogroups.com, Patrick Soileau ND5C <patrick@...> wrote:
>
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> Looking through the various catalog available online has
> left me a bit dazed and confused as to which route to go...
> a single tool with interchangeable dies or multiple (2,3,4)
> tools each covering maybe 2-3 cable sizes/types and/or
> connector types.
>
> Does anyone have any suggestions, recommendations, and/or
> opinions that they would care to share?
>
> This is strictly for amateur radio use, so there is no real
> need for an extremely heavy duty tool as would be needed by
> a a two-way radio technician in daily usage.
>
> Please be sure to copy Pat@... on your response.
>
> Thanks!
>
> 73,
>
> Pat ND5C
>

2018. Re: Request for Coax Connector Crimping Tool Opinions and/or Recommendations

Yahoo group: DAWG-HSMM
Date: 2011-01-22 18:02:20 UTC
From: h0chus_p0ckus
Topic: 2016 Message: 2018

Pat-
If you just crimp occassionally, one tool with different dies is fine. If you need to change dies more than "once in a while", i.e. several times on the same job, then having separate tools will mean less nuisance work and lost time.
More important is getting a good tool, they are not all created equal and some of the junk from China won't make proper crimps.
I've never regretted the money I spent on my first good ratcheting crimper, never had a crimp failure since.

--Red

2019. 333 - That's the Number of NTMS-HSMM Group Members

Yahoo group: DAWG-HSMM
Date: 2011-01-22 18:42:50 UTC
From: Kilgore
Topic: 2019 Message: 2019

Contratulations Brian Wingfield KO4FV!! You are the three hundred thirty third person to join the NTMD-HSMM Yahoo group.

What started out as a group for HSMM users in the Dallas/Ft. Worth area has grown into a group with users all over the United States and even in other countries. All have a interest in using HSMM.

The group has a bunch of newbies as well as gurus who are very familiar with the subject.

So don't be afraid to ask questions! We'll come up answers - maybe several of them. Hi HI

Doug Kilgore KD5OUG
List Owner

On 1/21/2011 12:54 PM, Yahoo! Groups Notification wrote:

Hello,

The following person would like to join the ntms-hsmm group:
Email address: sawbatch

Comment from user:
ko4fv here in Huntsville, AL. Just want to learn more about HSMM

2020. another ethernet cable Q

Yahoo group: DAWG-HSMM
Date: 2011-01-24 16:34:21 UTC
From: Jerry K
Topic: 2020 Message: 2020

Hey Gang,
I know this ain't high speed wifi stuff but there will be some of that wifi in this installation too ;) .

I'm trying to figure out the correct color wire to pin number code for a typical ethernet cable RJ-45. I believe the 568A standard seems to be the perfered, according to some web sites I've read. However, I have 2 store bought patch cables and neither one of them are the same color pin out and neither are 568A. No, one is not a cross-over either. I understand as long as the same wires are connected to the same pins on both ends of the cable all should be well. But what about some where in time I need to re-crimp a RJ-45 to a cable? I like the 568A standard because it's easy to identify a 2 line telephone RJ-14 to it. No. I've decided to run seperate cable for data and voice so I'm not piggy-back'n the two. This is going to be for my own home office and I have a couple of computers and a couple of network printers along with a two line telephone system. TNX es 73 de Jerry KD5OM

2021. Re: [ntms-hsmm] another ethernet cable Q

Yahoo group: DAWG-HSMM
Date: 2011-01-24 20:19:16 UTC
From: Kelly Martin-AB9RF
Topic: 2020 Message: 2021

In my experience, T568B (not T568A) is the standard pinout for a straight-through (not crossover) Ethernet cable. A crossover cable will be wired T586A at one end and T586B at the other. (I've seen some people assert that T568A is the standard, but in my seven years of experience as a network engineer I can assert that virtually everything uses T568B. T568A is mainly found on telephony gear.)

It is very important that the pairings be maintained in the cable. If you split pairs or use unpaired cable, you will have serious performance issues; Ethernet performance is pretty dependent on having a nominal 600 ohm impedance in each pair, and if you split pairs not only will that be lost but you will also get crosstalk and your cable will probably also radiate. The pairs in an T568B-wired Ethernet cable are 1&2 (orange), 3&6 (green), 4&5 (blue), and 7&8 (brown). T568A swaps green and orange. Even pins get solid colors, odd get white-stripe. You can alter the colors if you really must, but do not alter the pairings or your cable will not work well.

Kelly

On Mon, Jan 24, 2011 at 10:34 AM, Jerry K <kd5oldman@gmail.com> wrote:

>
>
> Hey Gang,
> I know this ain't high speed wifi stuff but there will be some of that wifi
> in this installation too ;) .
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> I'm trying to figure out the correct color wire to pin number code for a
> typical ethernet cable RJ-45. I believe the 568A standard seems to be the
> perfered, according to some web sites I've read. However, I have 2 store
> bought patch cables and neither one of them are the same color pin out and
> neither are 568A. No, one is not a cross-over either. I understand as long
> as the same wires are connected to the same pins on both ends of the cable
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> RJ-45 to a cable? I like the 568A standard because it's easy to identify a 2
> line telephone RJ-14 to it. No. I've decided to run seperate cable for data
> and voice so I'm not piggy-back'n the two. This is going to be for my own
> home office and I have a couple of computers and a couple of network
> printers along with a two line telephone system. TNX es 73 de Jerry KD5OM
>
>
>

2022. Re: another ethernet cable Q

Yahoo group: DAWG-HSMM
Date: 2011-01-24 22:29:49 UTC
From: Jerry K
Topic: 2020 Message: 2022

tnx kelly,

I can go with T568A for voice telephone. I like pins;
Pair One;
4: blue
5: white/blue
Pair Two;
3: white/orange
6: orange

This is easy for me to remember when doing my telephone lines. These are the four wires used in a RJ-14.

I just pulled another store bought patch cable from the shelf and it's wired:

1: white/orange
2: orange
3: white/blue
4: blue
5: white/green
6: green
7: white/brown
8: brown

This is this scheme? We've been using these for years here at work with our store bought cables. What standard do you call this? Standard? All this confusion makes that an oxymoron?

I really do appreciate your indulgence.

Jerry KD5OM

--- In ntms-hsmm@yahoogroups.com, Kelly Martin-AB9RF <ab9rf@...> wrote:
>
> In my experience, T568B (not T568A) is the standard pinout for a
> straight-through (not crossover) Ethernet cable. A crossover cable will be
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> network engineer I can assert that virtually everything uses T568B. T568A
> is mainly found on telephony gear.)
>
> It is very important that the pairings be maintained in the cable. If you
> split pairs or use unpaired cable, you will have serious performance issues;
> Ethernet performance is pretty dependent on having a nominal 600 ohm
> impedance in each pair, and if you split pairs not only will that be lost
> but you will also get crosstalk and your cable will probably also radiate.
> The pairs in an T568B-wired Ethernet cable are 1&2 (orange), 3&6 (green),

> 4&5 (blue), and 7&8 (brown). T568A swaps green and orange. Even pins get
> solid colors, odd get white-stripe. You can alter the colors if you really
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> > bought patch cables and neither one of them are the same color pin out and
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> > and voice so I'm not piggy-back'n the two. This is going to be for my own
> > home office and I have a couple of computers and a couple of network
> > printers along with a two line telephone system. TNX es 73 de Jerry KD5OM
> >
> >
> >
>

2023. Re: another ethernet cable Q

Yahoo group: DAWG-HSMM
Date: 2011-01-24 22:57:19 UTC
From: ae5ca
Topic: 2020 Message: 2023

Are you sure about the pinout of the store cable?

The 568B which seems to be more popular has

1: WH/OR
2: OR
3: WH/GR
4: BL
5: WH/BL
6: GN
7: WH/BR
8: BR

As was previously mentioned, you need to keep your pairs together

The Pairs are

1 & 2
3 & 6
4 & 5
7 & 8

As long as you are consistant and keep your pairs together, the particular color used is not that important.

A reference for the color codes is at:
http://www.incentre.net/content/view/75/2/

A typical 10/100 cable is using 1 & 2, and 3 & 6.

A Gb Cable uses all four pairs.

POE is normally done on 4 & 5 and 7 & 8.

Clint Anderson, AE5CA

--- In ntms-hsmm@yahoogroups.com, "Jerry K" <kd5oldman@...> wrote:
>
> tnx kelly,
>
> I can go with T568A for voice telephone. I like pins;
> Pair One;
> 4: blue
> 5: white/blue
> Pair Two;
> 3: white/orange
> 6: orange
>

> This is easy for me to remember when doing my telephone lines. These are the four wires used in a RJ-14.
>
> I just pulled another store bought patch cable from the shelf and it's wired:
>
> 1: white/orange
> 2: orange
> 3: white/blue
> 4: blue
> 5: white/green
> 6: green
> 7: white/brown
> 8: brown
>
> This is this scheme? We've been using these for years here at work with our store bought cables. What standard do you call this? Standard? All this confusion makes that an oxymoron?
>
> I really do appreciate your indulgence.
>
> Jerry KD5OM
>
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> --- In ntms-hsmm@yahoogroups.com, Kelly Martin-AB9RF <ab9rf@> wrote:
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> > network engineer I can assert that virtually everything uses T568B. T568A
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> > It is very important that the pairings be maintained in the cable. If you
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> > Ethernet performance is pretty dependent on having a nominal 600 ohm
> > impedance in each pair, and if you split pairs not only will that be lost
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> > must, but do not alter the pairings or your cable will not work well.
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> > Kelly
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> > On Mon, Jan 24, 2011 at 10:34 AM, Jerry K <kd5oldman@> wrote:
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> > >
> > > Hey Gang,
> > > I know this ain't high speed wifi stuff but there will be some of that wifi

> > > in this installation too ;) .
> > >
> > > I'm trying to figure out the correct color wire to pin number code for a
> > > typical ethernet cable RJ-45. I believe the 568A standard seems to be the
> > > perfered, according to some web sites I've read. However, I have 2 store
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> > > neither are 568A. No, one is not a cross-over either. I understand as long
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> > > and voice so I'm not piggy-back'n the two. This is going to be for my own
> > > home office and I have a couple of computers and a couple of network
> > > printers along with a two line telephone system. TNX es 73 de Jerry KD5OM
> > >
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>

2024. Re: [ntms-hsmm] Re: another ethernet cable Q

Yahoo group: DAWG-HSMM
Date: 2011-01-24 23:01:03 UTC
From: Patrick Soileau ND5C
Topic: 2020 Message: 2024

you an ol' "25 pair" man, Jerry?

From: Jerry K <kd5oldman@gmail.com>
Subject: [ntms-hsmm] Re: another ethernet cable Q
To: ntms-hsmm@yahoogroups.com
Date: Monday, January 24, 2011, 4:29 PM

tnx kelly,

I can go with T568A for voice telephone. I like pins;
Pair One;
4: blue
5: white/blue
Pair Two;
3: white/orange
6: orange

This is easy for me to remember when doing my telephone lines. These are the four wires used in a RJ-14.

I just pulled another store bought patch cable from the shelf and it's wired:

1: white/orange
2: orange
3: white/blue
4: blue
5: white/green
6: green
7: white/brown
8: brown

This is this scheme? We've been using these for years here at work with our store bought cables. What standard do you call this? Standard? All this confusion makes that an oxymoron?

I really do appreciate your indulgence.

Jerry KD5OM

--- In ntms-hsmm@yahoogroups.com, Kelly Martin-AB9RF <ab9rf@...> wrote:
>
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> straight-through (not crossover) Ethernet cable. A crossover cable will be
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> assert that T568A is the standard, but in my seven years of experience as a
> network engineer I can assert that virtually everything uses T568B. T568A
> is mainly found on telephony gear.)

>
> It is very important that the pairings be maintained in the cable. If you
> split pairs or use unpaired cable, you will have serious performance issues;
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> solid colors, odd get white-stripe. You can alter the colors if you really
> must, but do not alter the pairings or your cable will not work well.
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> On Mon, Jan 24, 2011 at 10:34 AM, Jerry K <kd5oldman@...> wrote:
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> > home office and I have a couple of computers and a couple of network
> > printers along with a two line telephone system. TNX es 73 de Jerry KD5OM
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> >
>

2025. Re: another ethernet cable Q

Yahoo group: DAWG-HSMM
Date: 2011-01-24 23:28:56 UTC
From: Jerry K
Topic: 2020 Message: 2025

I'm dead certain about the store bought cables. I guess this is what makes this so confusing. The people making up those patch cables aren't sticking to the T568a or the T568b schemes. Since I have 2 votes for the T568b I think I'll go with that for my 10-base-100 ethernet and T568a for my voice lines. If you examine a RJ-14 (2 line telephone jack), line one is the two wires in the center (same as a RJ-11 one line telephone) then line two is the next outer pair. This seems to work with the T568a scheme. But, as far as my ethernet is concern, I want to be ready to upgrade to a faster network and not have to re-wire everything. No need for anything faster than 100 right now.

Jerry KD5OM

--- In ntms-hsmm@yahoogroups.com, "ae5ca" <ae5ca@...> wrote:
>
>
> Are you sure about the pinout of the store cable?
>
> The 568B which seems to be more popular has
>
> 1: WH/OR
> 2: OR
> 3: WH/GR
> 4: BL
> 5: WH/BL
> 6: GN
> 7: WH/BR
> 8: BR
>
> As was previously mentioned, you need to keep your pairs together
>
> The Pairs are
>
> 1 & 2
> 3 & 6
> 4 & 5
> 7 & 8
>
> As long as you are consistant and keep your pairs together, the particular color used is not that important.
>
> A reference for the color codes is at:
> http://www.incentre.net/content/view/75/2/
>
> A typical 10/100 cable is using 1 & 2, and 3 & 6.
>
> A Gb Cable uses all four pairs.

>
> POE is normally done on 4 & 5 and 7 & 8.
>
> Clint Anderson, AE5CA
>
>
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> --- In ntms-hsmm@yahoogroups.com, "Jerry K" <kd5oldman@> wrote:
> >
> > tnx kelly,
> >
> > I can go with T568A for voice telephone. I like pins;
> > Pair One;
> > 4: blue
> > 5: white/blue
> > Pair Two;
> > 3: white/orange
> > 6: orange
> >
> > This is easy for me to remember when doing my telephone lines. These are the four wires used in a RJ-14.
> >
> > I just pulled another store bought patch cable from the shelf and it's wired:
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> > 1: white/orange
> > 2: orange
> > 3: white/blue
> > 4: blue
> > 5: white/green
> > 6: green
> > 7: white/brown
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> >
> > This is this scheme? We've been using these for years here at work with our store bought cables. What standard do you call this? Standard? All this confusion makes that an oxymoron?
> >
> > I really do appreciate your indulgence.
> >
> > Jerry KD5OM
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> > --- In ntms-hsmm@...m, Kelly Martin-AB9RF <ab9rf@> wrote:
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> > > In my experience, T568B (not T568A) is the standard pinout for a
> > > straight-through (not crossover) Ethernet cable. A crossover cable will be
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> > > network engineer I can assert that virtually everything uses T568B. T568A
> > > is mainly found on telephony gear.)

> > >
> > > It is very important that the pairings be maintained in the cable. If you
> > > split pairs or use unpaired cable, you will have serious performance issues;
> > > Ethernet performance is pretty dependent on having a nominal 600 ohm
> > > impedance in each pair, and if you split pairs not only will that be lost
> > > but you will also get crosstalk and your cable will probably also radiate.
> > > The pairs in an T568B-wired Ethernet cable are 1&2 (orange), 3&6 (green),
> > > 4&5 (blue), and 7&8 (brown). T568A swaps green and orange. Even pins get
> > > solid colors, odd get white-stripe. You can alter the colors if you really
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> > > >
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2026. Re: [ntms-hsmm] Re: another ethernet cable Q

Yahoo group: DAWG-HSMM
Date: 2011-01-24 23:50:21 UTC
From: Kilgore
Topic: 2020 Message: 2026

Check this link out.
http://en.wikipedia.org/wiki/Category_5_cable

Quote
"The cable is terminated in either the T568A scheme or the T568B scheme. Canada and Australia use the T568A standard, and the United States commonly uses T568B scheme. It really doesn't make any difference which is used as long as you use only one of the standards so all connections are the same at your location to avoid confusion and potential problems. Mixed cable types should not be connected in series as the impedance per pair differs slightly and may cause signal degradation. The article Ethernet over twisted pair (http://en.wikipedia.org/wiki/Ethernet_over_twisted_pair) describes how the cable is used for Ethernet, including special "cross over" cables (http://en.wikipedia.org/wiki/Ethernet_crossover_cable)."

Doug KD5OUG

On 1/24/2011 4:29 PM, Jerry K wrote:

tnx kelly,

I can go with T568A for voice telephone. I like pins;
Pair One;
4: blue
5: white/blue
Pair Two;
3: white/orange
6: orange

This is easy for me to remember when doing my telephone lines. These are the four wires used in a RJ-14.

I just pulled another store bought patch cable from the shelf and it's wired:

1: white/orange
2: orange
3: white/blue
4: blue
5: white/green
6: green
7: white/brown
8: brown

This is this scheme? We've been using these for years here at work with our store bought cables. What standard do you call this? Standard? All this confusion makes that an oxymoron?

I really do appreciate your indulgence.

Jerry KD5OM

--- In ntms-hsmm@yahoogroups.com, Kelly Martin-AB9RF wrote:

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Yahoo! Groups Links

<*> To visit your group on the web, go to:
http://groups.yahoo.com/group/ntms-hsmm/

<*> Your email settings:
Individual Email | Traditional

<*> To change settings online go to:
http://groups.yahoo.com/group/ntms-hsmm/join

(Yahoo! ID required)

<*> To change settings via email:
ntms-hsmm-digest@yahoogroups.com
ntms-hsmm-fullfeatured@yahoogroups.com

<*> To unsubscribe from this group, send an email to:
ntms-hsmm-unsubscribe@yahoogroups.com

<*> Your use of Yahoo! Groups is subject to:
http://docs.yahoo.com/info/terms/

2027. Re: [ntms-hsmm] Re: another ethernet cable Q

Yahoo group: DAWG-HSMM
Date: 2011-01-25 00:14:57 UTC
From: KJ6KO
Topic: 2020 Message: 2027

I can verify that a non-T568a/b cable will NOT pass a CAT5/E or CAT6/E test! It could be that the store bought unit may not have any twisted pairs in it, or the pairs are twisted differently than by own colors??? Maybe it's short enough it doesn't matter??? You can wire a CAT5 cable W/B W/O W/G W/Bn and it may work, but will be VERY slow!! If it is of any decent length, it will just sit there and green up the lights, but very little data will pass.
We had contractors going around making cables up and they did several just as above. Everything would green up, but It wouldn't even pass the initial pair test using a cable tester. After I wired as the 568B pinout shown below from Jerry, it passed better than CAT6 quality from standard CAT5E cable.

73...
----- Original Message -----
From: Jerry K
To: ntms-hsmm@yahoogroups.com
Sent: Monday, January 24, 2011 3:28 PM
Subject: [ntms-hsmm] Re: another ethernet cable Q

I'm dead certain about the store bought cables. I guess this is what makes this so confusing. The people making up those patch cables aren't sticking to the T568a or the T568b schemes. Since I have 2 votes for the T568b I think I'll go with that for my 10-base-100 ethernet and T568a for my voice lines. If you examine a RJ-14 (2 line telephone jack), line one is the two wires in the center (same as a RJ-11 one line telephone) then line two is the next outer pair. This seems to work with the T568a scheme. But, as far as my ethernet is concern, I want to be ready to upgrade to a faster network and not have to re-wire everything. No need for anything faster than 100 right now.

Jerry KD5OM

--- In ntms-hsmm@yahoogroups.com, "ae5ca" <ae5ca@...> wrote:
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> 1: WH/OR
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> A reference for the color codes is at:
> http://www.incentre.net/content/view/75/2/
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> A typical 10/100 cable is using 1 & 2, and 3 & 6.
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> POE is normally done on 4 & 5 and 7 & 8.
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> Clint Anderson, AE5CA
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> --- In ntms-hsmm@yahoogroups.com, "Jerry K" <kd5oldman@> wrote:
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> > tnx kelly,
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> > I can go with T568A for voice telephone. I like pins;
> > Pair One;
> > 4: blue
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_____ Information from ESET NOD32 Antivirus, version of virus signature database 5814 (20110124) _____

The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

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2028. Re: another ethernet cable Q

Yahoo group: DAWG-HSMM
Date: 2011-01-25 01:04:00 UTC
From: Jerry K
Topic: 2020 Message: 2028

No doubt about it. It's settled. I plan on wacking off the connectors and recriping everything as per the T568B method. Analog telephone lines will be T568A so the two phone line pairs will match up. Thank you everybody for all of the input. I have two rolls of CAT5e. One with an orange sheath and one with a blue sheath. The orange will be telephone and the blue will be data. Jerry KD5OM

--- In ntms-hsmm@yahoogroups.com, "KJ6KO" <kj6ko@...> wrote:
>
> I can verify that a non-T568a/b cable will NOT pass a CAT5/E or CAT6/E test! It could be that the store bought unit may not have any twisted pairs in it, or the pairs are twisted differently than by own colors??? Maybe it's short enough it doesn't matter??? You can wire a CAT5 cable W/B W/O W/G W/Bn and it may work, but will be VERY slow!! If it is of any decent length, it will just sit there and green up the lights, but very little data will pass.
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> Sent: Monday, January 24, 2011 3:28 PM
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> _____ Information from ESET NOD32 Antivirus, version of virus signature database
5814 (20110124) _____
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2029. Re: another ethernet cable Q

Yahoo group: DAWG-HSMM
Date: 2011-01-25 01:04:23 UTC
From: Jerry K
Topic: 2020 Message: 2029

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2030. Re: [ntms-hsmm] Re: another ethernet cable Q

Yahoo group: DAWG-HSMM
Date: 2011-01-26 01:36:26 UTC
From: Kelly Martin-AB9RF
Topic: 2020 Message: 2030

In some cables it can be very hard to tell green/white from blue/white. I had a spool of cable in which those two colors were almost entirely indistinguishable (which made me really really hate that spool). Could this be the case on your store bought cables?

The advantage of T568A is that it's consistent with the 25-pair sequence used almost universally by telephone peeps. StarLAN was designed to coexist with a POTS line, which is why it uses pairs 2 and 3, although why it used RJ-45 and not RJ-25 is a mystery to me. In any case, we've moved way past StarLAN by now, and for whatever random reason everyone uses T568B for data networking anyway.

Kelly

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> issues;
> > > > Ethernet performance is pretty dependent on having a nominal 600 ohm
> > > > impedance in each pair, and if you split pairs not only will that be
> lost
> > > > but you will also get crosstalk and your cable will probably also
> radiate.
> > > > The pairs in an T568B-wired Ethernet cable are 1&2 (orange), 3&6
> (green),
> > > > 4&5 (blue), and 7&8 (brown). T568A swaps green and orange. Even pins
> get
> > > > solid colors, odd get white-stripe. You can alter the colors if you
> really
> > > > must, but do not alter the pairings or your cable will not work well.
> > > >
> > > > Kelly
> > > >
> > > > On Mon, Jan 24, 2011 at 10:34 AM, Jerry K <kd5oldman@> wrote:
> > > >
> > > > >

> > > > >
> > > > > Hey Gang,
> > > > > I know this ain't high speed wifi stuff but there will be some of
> that wifi
> > > > > in this installation too ;) .
> > > > >
> > > > > I'm trying to figure out the correct color wire to pin number code
> for a
> > > > > typical ethernet cable RJ-45. I believe the 568A standard seems to
> be the
> > > > > perfered, according to some web sites I've read. However, I have 2
> store
> > > > > bought patch cables and neither one of them are the same color pin
> out and
> > > > > neither are 568A. No, one is not a cross-over either. I understand
> as long
> > > > > as the same wires are connected to the same pins on both ends of
> the cable
> > > > > all should be well. But what about some where in time I need to
> re-crimp a
> > > > > RJ-45 to a cable? I like the 568A standard because it's easy to
> identify a 2
> > > > > line telephone RJ-14 to it. No. I've decided to run seperate cable
> for data
> > > > > and voice so I'm not piggy-back'n the two. This is going to be for
> my own
> > > > > home office and I have a couple of computers and a couple of
> network
> > > > > printers along with a two line telephone system. TNX es 73 de Jerry
> KD5OM
> > > > > >
> > > > > >
> > > > > >
> > > > >
> > >
> >
>
>
>

2031. Fw: Attempted Changes to the new Lucas Tower/Antenna Ordinance

Yahoo group: DAWG-HSMM
Date: 2011-02-08 15:44:44 UTC
From: Patrick Soileau ND5C
Topic: 2031 Message: 2031

From: Larry Essary <larry@...>
Subject: Attempted Changes to the new Lucas Tower/Antenna Ordinance
To:
Date: Tuesday, February 8, 2011, 12:32 AM

Fellow Amateur Radio brothers and sisters...

The Politicos in Lucas, Texas are once again trying to minimize the rights of amateur radio operators.

The latest move is an attempt to change the Tower/Antenna ordinance by deleting the exemption to vertical antennas 35 feet and under.
By doing so... not only would you be required to pay a $150 permit fee (for 3 inspections - which makes no sense) for your vertical antenna...
you would also find that your vertical would count as a tower against your limit of two towers.

If the Politicos are successful in changing the ordinance you would have to decide if you are willing to give up a tower for that vertical.
If you wanted a pair of phased verticals then you would be done and you could forget about putting up ANY sort of a tower.

All of this started from one citizen complaint and a mayor (who has now resigned) who pulled the trigger on this mess.
It is the former mayor that wanted the vertical antenna exemption removed from the newly passed Tower/Antenna ordinance.
And this same former mayor stated in a recent council meeting that he had just acquired his ham license on the Internet.

With someone still fanning the flames of unrest there will be a small group of Lucas citizens making their emotional and often error-filled statements.
The hams in Lucas need your calm, sane, and educated voice to present facts. Remember that what one city does has ripple effects into other cities.

I ask all that can to please attend the Lucas P&Z meeting on this Thursday, February 10, at 7PM, and inject YOUR voice into the process.
The last round of this will be at the city council meeting on Thursday, February 17, at 7 PM.
The city hall is located at 665 Country Club which is midway between Lucas Road (Bethany) and Estates Parkway (McDermott).

Larry K5XG
214 495-8066 #202

--
Amateur Radio - Rekindling Old Traditions and Inventing New Technologies

2032. HD Video over Wifi

Yahoo group: DAWG-HSMM
Date: 2011-02-11 20:54:03 UTC
From: Kilgore
Topic: 2032 Message: 2032

Here's an article about the use of HD video over a Wifi link:

http://www.dv.com/article/102808

Doug KD5OUG

2033. Re: [ntms-hsmm] HD Video over Wifi

Yahoo group: DAWG-HSMM
Date: 2011-02-11 22:02:16 UTC
From: Floyd Rodgers
Topic: 2032 Message: 2033

Have you come across any other lower cost products for medium resoloution video over WIFI? I need to get video about 500 feet away without having a PC at the receiving end.

2034. Re: [ntms-hsmm] HD Video over Wifi

Yahoo group: DAWG-HSMM
Date: 2011-02-12 16:20:35 UTC
From: Keith Berry
Topic: 2032 Message: 2034

Many IP cams have SMA or other types of antenna connectors on them. You can connect a directional antenna to that and if you have good line of sight connectivity to your WAP, it should work.

Keith KE0FV

From: Floyd Rodgers <kc5qbc@...>
To: ntms-hsmm@yahoogroups.com
Sent: Fri, February 11, 2011 4:02:16 PM
Subject: Re: [ntms-hsmm] HD Video over Wifi

Have you come across any other lower cost products for medium resoloution video over WIFI? I need to get video about 500 feet away without having a PC at the receiving end.

2035. Re: [ntms-hsmm] HD Video over Wifi

Yahoo group: DAWG-HSMM
Date: 2011-02-12 16:59:58 UTC
From: Kilgore
Topic: 2032 Message: 2035

Yes, IP cams can do that but you must have software running in a computer to convert the IP back to a video signal for display on a monitor.

If no computer is really a constraint, what you may be looking for is one of those 2.4 Ghz Part 15 wireless video cams. They transmit not IP but analog AM or FM modulated video. Unfortunately they are in the same frequency range as 802.11b so they are just noise to 802.11b. They put out composite NTSC video or Channel 3 or 4 for viewing on a TV.

There are many commercial wireless cams out there. Just look for ones which will allow you to change antennas. Then select an antenna which will provide the gain to make the link.

There used to be a 2.4 Ghz 100 watt amateur television repeater on a downtown building which was viewable over the whole metroplex. I don't think it's there anymore.

Doug KD5OUG

On 2/12/2011 10:20 AM, Keith Berry wrote:

Many IP cams have SMA or other types of antenna connectors on them. You can connect a directional antenna to that and if you have good line of sight connectivity to your WAP, it should work.

Keith KE0FV

From: Floyd Rodgers
To: ntms-hsmm@yahoogroups.com
Sent: Fri, February 11, 2011 4:02:16 PM
Subject: Re: [ntms-hsmm] HD Video over Wifi

Have you come across any other lower cost products for medium
resoloution video over WIFI? I need to get video about 500 feet away
without having a PC at the receiving end.

2036. fwd: [CQ] mesh networking and codec2 talks at Hamvention 2011

Yahoo group: DAWG-HSMM
Date: 2011-02-22 05:49:03 UTC
From: kb9mwr
Topic: 2036 Message: 2036

From: Bruce Perens <bruce at perens.com>
To: <cq at lists.noisebridge.net>
Subject: mesh networking and codec2 talks at Hamvention 2011

TAPR will be bringing David Rowe to Hamvention from Australia. He will speak about Codec2 at the TAPR forum, and then at the TAPR/AMSAT dinner he will do a talk on his mesh networking project, the Dili Village Telco. A lot of this talk will cover why getting mesh networking working well has been much harder than expected.

2037. Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2011-02-24 23:02:37 UTC
From: Kipton Moravec
Topic: 2037 Message: 2037

Digital Tuesday is a special interest group that is interested in HSMM-MESH, Winlink, and APRS. While we will be affiliated with the Plano Amateur Radio Klub, you do not have to be a member of PARK to participate in Digital Tuesdays.

Since this is the first meeting, we will discuss how we want to go forward, and how often we want to meet. The options we are looking at for how often are once per month on the first or third Tuesday, twice per month on the first and third Tuesday, or one Tuesday and also meet at the monthly "PARK at the park".

Rusty AE5AE is going to talk about the configuration files in the HSMM-MESH software, and how you can customize them in ways that is not possible from the menu system.

You can bring your HSMM-MESH router and follow Rusty in editing the files, or we can help load the latest HSMM-MESH software into the router.

I also want to have a "show and tell" session, so bring what you are working on in the HSMM-MESH, Winlink, or APRS areas.

I envision the meetings as a way for the group to get up to speed in different areas of digital communications quicker. I would like to have mini-briefings (5-10 minute) each time on different areas by the members. One member decides he wants to figure out one problem, and then shares it at the next meeting in a little briefing.

So the first one will be at 7:00 p.m. March 1, 2011, at 299 Connor Lane, Lucas Texas 75002. Follow the driveway to the backyard gate, and there is a pool house in the back yard. That is where we will meet.

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2038. Network Manager Software

Yahoo group: DAWG-HSMM
Date: 2011-02-28 21:54:20 UTC
From: Jerry K
Topic: 2038 Message: 2038

Can anybody suggest to me a network management software? One that will show me all the various IP/Sub-net/Etc... of all the devices on my network and help me find conflicts?

Jerry KD5OM

2039. Re: [ntms-hsmm] Network Manager Software

Yahoo group: DAWG-HSMM
Date: 2011-02-28 22:15:33 UTC
From: Keith Berry
Topic: 2038 Message: 2039

Try Spiceworks http://www.spiceworks.com/

From: Jerry K <kd5oldman@...>
To: ntms-hsmm@yahoogroups.com
Sent: Mon, February 28, 2011 3:54:20 PM
Subject: [ntms-hsmm] Network Manager Software

Can anybody suggest to me a network management software? One that will show me all the various IP/Sub-net/Etc... of all the devices on my network and help me find conflicts?

Jerry KD5OM

2040. RE: [ntms-hsmm] Network Manager Software

Yahoo group: DAWG-HSMM
Date: 2011-02-28 22:23:33 UTC
From: Moe
Topic: 2038 Message: 2040

```
-----Original Message-----
From: Keith Berry <berryko@...>
Sent: Monday, February 28, 2011 4:15 PM
To: ntms-hsmm@yahoogroups.com
Subject: Re: [ntms-hsmm] Network Manager Software

Try Spiceworks http://www.spiceworks.com/

From: Jerry K <kd5oldman@...>
To: ntms-hsmm@yahoogroups.com
Sent: Mon, February 28, 2011 3:54:20 PM
Subject: [ntms-hsmm] Network Manager Software

Can anybody suggest to me a network management software? One that will show me all the
various IP/Sub-net/Etc... of all the devices on my network and help me find conflicts?

Jerry KD5OM

Reply to sender |

[The entire original message is not included]
```

2041. Re: [ntms-hsmm] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2011-03-02 19:52:40 UTC
From: Rusty Haddock
Topic: 2037 Message: 2041

Folks,

I just created a 'DigitalTuesday' folder in the files section. The DT folks can put their files in there.

I have also put in there the slides from my talk at the Jan '11 webinar. This is about how to install the HSMM-MESH firmware onto a WRT54 that's running the LinkSys firmware. These slides are in PDF format and slightly modified from the originals to clarify/fill-in a few points.

The next Digital Tuesday meeting will be in two-weeks on March 15th, same Bat-Time, same Bat-Place.

This week's adventures got into doing HSMM-MESH firmware installations instead of my talk on non-GUI configuration, examining the mesh we built last night, projects to work on especially for HamCom, and other little tid bits.

We were glad to see the folks that drove over from Ft Worth and hear about what they've got going on. Hope y'all can make it to more of our meetings!

See y'all on the 15th!

```
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2042. subversion repo

Yahoo group: DAWG-HSMM
Date: 2011-03-04 05:26:56 UTC
From: Dan Zubey
Topic: 2042 Message: 2042

Hi.

I've requested access to the subversion repo via the website, I'm wondering if that was really what I was supposed to do, or should I hit up someone else as well?

I'm working on a custom distro for the Phoenix area, just wanted to see what has been done.

Thanks,

-Dan N7NMD

2043. Re: [ntms-hsmm] subversion repo

Yahoo group: DAWG-HSMM
Date: 2011-03-04 14:26:05 UTC
From: Kipton Moravec
Topic: 2042 Message: 2043

What do you want to do different?

Kip

On Thu, 2011-03-03 at 22:26 -0700, Dan Zubey wrote:
>
>
> Hi.
>
> I've requested access to the subversion repo via the website, I'm
> wondering if that was really what I was supposed to do, or should I
> hit up someone else as well?
>
> I'm working on a custom distro for the Phoenix area, just wanted to
> see what has been done.
>
> Thanks,
>
> -Dan N7NMD
>
>
>

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2044. Re: [ntms-hsmm] subversion repo

Yahoo group: DAWG-HSMM
Date: 2011-03-05 01:34:47 UTC
From: Dan Zubey
Topic: 2042 Message: 2044

Hi Kip

Well, it's not really an issue of that I have a list of 'bad' things
that need 'fixing', it's more of that I'm a ham and I need to open it
and break the warranty ;)

One of my main goals is to get the software working on 2M flash routers.
I know everyone says it can't be done. But if I can accomplish that the
available routers for our project at least doubles. Otherwise I'm
looking at replacing flash chips, or adding MMC cards, or some other hack.

Now, I've been able to get the dd-wrt micro olsrd version somewhat
working with the ntms image, but I'd like to look at the source on the
ntms image, to make sure I get everything right.

-Dan N7NMD

On 03/04/2011 07:26 AM, Kipton Moravec wrote:
> What do you want to do different?
>
> Kip
>
> On Thu, 2011-03-03 at 22:26 -0700, Dan Zubey wrote:
>>
>> Hi.
>>
>> I've requested access to the subversion repo via the website, I'm
>> wondering if that was really what I was supposed to do, or should I
>> hit up someone else as well?
>>
>> I'm working on a custom distro for the Phoenix area, just wanted to
>> see what has been done.
>>
>> Thanks,
>>
>> -Dan N7NMD
>>
>>
>>
>

2045. Re: [ntms-hsmm] subversion repo

Yahoo group: DAWG-HSMM
Date: 2011-03-05 04:05:17 UTC
From: Kipton Moravec
Topic: 2042 Message: 2045

Better use of effort would be to get it working on other than Broadcom chips.

I know Rusty is working on it. For one chip that is used on cheaper routers.

I have not gotten into it to see how far they are from the 2M limit. But if it was possible, I would have thought they would have done it by now.

Contact David AD5OO to get access to the SVN. He is around the Austin_HSMM_Development@yahoogroups.com email list.

Kip

On Fri, 2011-03-04 at 18:34 -0700, Dan Zubey wrote:
> Hi Kip
>
> Well, it's not really an issue of that I have a list of 'bad' things
> that need 'fixing', it's more of that I'm a ham and I need to open it
> and break the warranty ;)
>
> One of my main goals is to get the software working on 2M flash routers.
> I know everyone says it can't be done. But if I can accomplish that the
> available routers for our project at least doubles. Otherwise I'm
> looking at replacing flash chips, or adding MMC cards, or some other hack.
>
> Now, I've been able to get the dd-wrt micro olsrd version somewhat
> working with the ntms image, but I'd like to look at the source on the
> ntms image, to make sure I get everything right.
>
> -Dan N7NMD
>
> On 03/04/2011 07:26 AM, Kipton Moravec wrote:
> > What do you want to do different?
> >
> > Kip
> >
> > On Thu, 2011-03-03 at 22:26 -0700, Dan Zubey wrote:
> >>
> >> Hi.
> >>
> >> I've requested access to the subversion repo via the website, I'm
> >> wondering if that was really what I was supposed to do, or should I
> >> hit up someone else as well?
> >>

> >> I'm working on a custom distro for the Phoenix area, just wanted to
> >> see what has been done.
> >>
> >> Thanks,
> >>
> >> -Dan N7NMD
> >>
> >>
> >>
> >
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>
> Yahoo! Groups Links
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>

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2046. Re: [ntms-hsmm] subversion repo

Yahoo group: DAWG-HSMM
Date: 2011-03-05 06:59:43 UTC
From: Rusty Haddock
Topic: 2042 Message: 2046

Kipton Moravec wrote:
>Better use of effort would be to get it working on other than Broadcom
>chips.
>
>I know Rusty is working on it. For one chip that is used on cheaper
>routers.

Actually, the Atheros chip set is truly a better chipset than the
Broadcom and it's functionality isn't hidden like that of Broadcom.
It just so happens to be used in some cheaper routers but definitely
not always in the cheaper routers. Still, there's still a fairly
good supply of them around here.

>I have not gotten into it to see how far they are from the 2M limit. But
>if it was possible, I would have thought they would have done it by
>now.

Not quite true but we'd give up ALL of the flexibility with the much
smaller memory. The kernel alone is over 2M and the root filesystem,
which gets stashed into Flash memory, is almost twice that as well.
Getting down that small certainly limits your feature set and absolutely
kills the ability to load new packages (additional functionality) on
the fly.

To my knowledge, no one in the Austin development group is even THINKING
about trying to get the HSMM-MESH firmware to load on to those little itty
bitty 2Meg machines. The olsrd libraries are almost 250K alone and the
wireless kernel module is over 800k bytes. You've got a long ways to go
and, IMHO, is not worth the effort. Oh yeah, many of the scripts used on
the system are written in Perl. The MICRO-Perl interpreter is over 1Meg.

I know what kind of effort it takes to shrink a Linux kernel down and,
trust me, no one around here has got THAT much spare time nor is paid
enough to do that! We could really use your efforts towards porting to
new hardware.

>> Well, it's not really an issue of that I have a list of 'bad' things
>> that need 'fixing', it's more of that I'm a ham and I need to open it
>> and break the warranty ;)

Yer breaking the warranty by just loading the HSMM-MESH firmware. :-)

>> One of my main goals is to get the software working on 2M flash routers.
>> I know everyone says it can't be done. But if I can accomplish that the
>> available routers for our project at least doubles. Otherwise I'm
>> looking at replacing flash chips, or adding MMC cards, or some other hack.

And you're sure that the CPU's in those smaller models can actually address that much memory if you can simply swap the chips???

Besides, just a simple hardware modification like that slide band mod gets expensive real fast. Do you really think that replacing flash chips or whatever is something that Joe Ham can be doing? And those new flash chips, even if they work will probably cost more than what we're paying for one of these WRT54G's.

>> Now, I've been able to get the dd-wrt micro olsrd version somewhat
>> working with the ntms image, but I'd like to look at the source on the
>> ntms image, to make sure I get everything right.

As far as I can tell the kernel sources really haven't been modified so just look at the OpenWRT v7.09 source code as well as the latest olsrd sources (version 0.6.0, I believe).

Just sumpin' to think about!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2047. [DAWG-HSMM] ntms-hsmm group name/addresses have changed

Yahoo group: DAWG-HSMM
Date: 2011-03-10 20:53:35 UTC
From: notify@yahoogroups.com
Topic: 2047 Message: 2047

Hello,

The moderator of the ntms-hsmm group has changed the group's name.
This means that both the group's email address and the group home page
location have changed.

The group email address:
DAWG-HSMM@yahoogroups.com

The group home page location:
http://groups.yahoo.com/group/DAWG-HSMM

If you have links which point to this group or an address book entry
for the group, you should update them, as the old addresses will no
longer work.

Regards,

Yahoo! Groups Customer Care

2048. Re: [DAWG-HSMM] ntms-hsmm group name/addresses have changed

Yahoo group: DAWG-HSMM
Date: 2011-03-10 21:59:09 UTC
From: Rusty Haddock
Topic: 2047 Message: 2048

```
notify@yahoogroups.com wrote:
>
>Hello,
>
>The moderator of the ntms-hsmm group has changed the group's name.
>This means that both the group's email address and the group home page
>location have changed.

And we would be doing this without discussion in the group **WHY**?

Having this message come out with no explanation or reasoning is
rather... blindsiding the membership, don't you think???

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2049. Re: [DAWG-HSMM] ntms-hsmm group name/addresses have changed

Yahoo group: DAWG-HSMM
Date: 2011-03-10 23:20:31 UTC
From: Kipton Moravec
Topic: 2047 Message: 2049

On Thu, 2011-03-10 at 15:59 -0600, Rusty Haddock wrote:
> notify@yahoogroups.com wrote:
> >
> >Hello,
> >
> >The moderator of the ntms-hsmm group has changed the group's name.
> >This means that both the group's email address and the group home page
> >location have changed.
>
> And we would be doing this without discussion in the group **WHY**?
>
> Having this message come out with no explanation or reasoning is
> rather... blindsiding the membership, don't you think???
>
> -Rusty-

I remember it being discussed and I remember you were there. :) We talked about it at Digital Tuesday. The change was made at the suggestion of the moderator, because the HSMM stuff is not part of the North Texas Microwave Society, and has not been for many years.

The name Dallas Area Working Group (DAWG) - HSMM is what the moderator came up with. The name is not a big deal to me, but I understand that we do not want people to think this is part of the NTMS when it is not.

I probably would have announced it first, but the moderator on these lists is omnipotent and can do what he wants. And I don't have a problem with that, it is just how it works. This list has not been getting a whole lot of traffic -- 6 before your comment in March and about 11 in the month of February.

Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2050. Re: [DAWG-HSMM] ntms-hsmm group name/addresses have changed

Yahoo group: DAWG-HSMM
Date: 2011-03-11 00:02:21 UTC
From: Mike Dominy
Topic: 2047 Message: 2050

I have a big question to any and/or all of you. The Tom Green Co. ARES group is working on its own HSMM-MESH system for mainly emergency use from and/or to the EOC and the weather service, but will also use it for other things.

The question we have is: Does the routers have to have different numbers to each of them to make the system work or what?

We have been to the main web site and looked at and download everything we could possible think of using and all of the information we could come up with on the system, but we are at the point that we what to make sure we are doing it right.

Any help on this will be grateful.

73, de
Mike / KD5URW

----- Original Message -----
From: Kipton Moravec
To: DAWG-HSMM@yahoogroups.com
Sent: Thursday, March 10, 2011 5:20 PM
Subject: Re: [DAWG-HSMM] ntms-hsmm group name/addresses have changed

On Thu, 2011-03-10 at 15:59 -0600, Rusty Haddock wrote:
> notify@yahoogroups.com wrote:
> >
> >Hello,
> >
> >The moderator of the ntms-hsmm group has changed the group's name.
> >This means that both the group's email address and the group home page
> >location have changed.
>
> And we would be doing this without discussion in the group **WHY**?
>
> Having this message come out with no explanation or reasoning is
> rather... blindsiding the membership, don't you think???
>
> -Rusty-

I remember it being discussed and I remember you were there. :) We talked about it at Digital Tuesday. The change was made at the suggestion of the moderator, because the HSMM stuff is not part of the North Texas Microwave Society, and has not been for many years.

The name Dallas Area Working Group (DAWG) - HSMM is what the moderator came up with. The name is not a big deal to me, but I understand that we do not want people to think this is part of the NTMS when it is not.

I probably would have announced it first, but the moderator on these lists is omnipotent and can do what he wants. And I don't have a problem with that, it is just how it works. This list has not been getting a whole lot of traffic -- 6 before your comment in March and about 11 in the month of February.

Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2051. Re: [DAWG-HSMM] ntms-hsmm group name/addresses have changed

Yahoo group: DAWG-HSMM
Date: 2011-03-11 00:08:53 UTC
From: John Donaldson
Topic: 2047 Message: 2051

I gather that we don't have to re-apply for email feed or sending to the feed?

John
AB8YZ

On 3/10/2011 5:20 PM, Kipton Moravec wrote:
>
> On Thu, 2011-03-10 at 15:59 -0600, Rusty Haddock wrote:
> > notify@yahoogroups.com <mailto:notify%40yahoogroups.com> wrote:
> > >
> > >Hello,
> > >
> > >The moderator of the ntms-hsmm group has changed the group's name.
> > >This means that both the group's email address and the group home page
> > >location have changed.
> >
> > And we would be doing this without discussion in the group **WHY**?
> >
> > Having this message come out with no explanation or reasoning is
> > rather... blindsiding the membership, don't you think???
> >
> > -Rusty-
>
> I remember it being discussed and I remember you were there. :) We
> talked about it at Digital Tuesday. The change was made at the
> suggestion of the moderator, because the HSMM stuff is not part of the
> North Texas Microwave Society, and has not been for many years.
>
> The name Dallas Area Working Group (DAWG) - HSMM is what the moderator
> came up with. The name is not a big deal to me, but I understand that we
> do not want people to think this is part of the NTMS when it is not.
>
> I probably would have announced it first, but the moderator on these
> lists is omnipotent and can do what he wants. And I don't have a problem
> with that, it is just how it works. This list has not been getting a
> whole lot of traffic -- 6 before your comment in March and about 11 in
> the month of February.
>
> Kip
>
> --
> Kipton Moravec AE5IB .- . ... -...
>
> "Always do right; this will gratify some people and astonish the rest."

> --Mark Twain
>
>

2052. Re: [DAWG-HSMM] ntms-hsmm group name/addresses have changed

Yahoo group: DAWG-HSMM
Date: 2011-03-11 00:35:59 UTC
From: Rusty Haddock
Topic: 2047 Message: 2052

Kipton Moravec wrote:
>> And we would be doing this without discussion in the group **WHY**?
>>
>> Having this message come out with no explanation or reasoning is
>> rather... blindsiding the membership, don't you think???
>>
>> -Rusty-
>
>I remember it being discussed and I remember you were there. :) We
>talked about it at Digital Tuesday. The change was made at the
>suggestion of the moderator, because the HSMM stuff is not part of the
>North Texas Microwave Society, and has not been for many years.

Probably, but I didn't remember it. Still, said discussion didn't
happen on the mailing list here, just in person at the DT gathering.

I'm not complaining about the name, just the omnipotence of our moderator.
Although it does make us sound like a bunch of Georgia Tech. grad.

We are, for the most part, amateur radio operators here -- trained
communicators. It seems rather... neglectful that this wasn't
COMMUNICATED in a more people friendly fashion. That's all.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2053. Re: [DAWG-HSMM] different numbers

Yahoo group: DAWG-HSMM
Date: 2011-03-11 00:52:36 UTC
From: Rusty Haddock
Topic: 2047 Message: 2053

Mike Dominy wrote:

>I have a big question to any and/or all of you. The Tom Green
>Co. ARES group is working on its own HSMM-MESH system for mainly
>emergency use from and/or to the EOC and the weather service, but
>will also use it for other things.
>
>The question we have is: Does the routers have to have different
>numbers to each of them to make the system work or what?

What numbers are you talking about? If you're talking about the IP address (e.g. 10.205.133.43) then the firmware will select an IP address based upon the MAC address of the hardware. This will be the IP address for wifi side but is not guaranteed to be perfect. If two routers with the last three numbers of their MAC addresses match then you'll have to manually change one of them on the Setup page.

>We have been to the main web site and looked at and download
>everything we could possible think of using and all of the information
>we could come up with on the system, but we are at the point that
>we what to make sure we are doing it right.

If you follow the instructions and download the firmware, set a password, and a node Id that's unique then you'll be doing everything right.

>Any help on this will be grateful.

Does this help, Mike?

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2054. Re: [DAWG-HSMM] ntms-hsmm group name/addresses have changed

Yahoo group: DAWG-HSMM
Date: 2011-03-11 00:54:56 UTC
From: Rusty Haddock
Topic: 2047 Message: 2054

```
John Donaldson wrote:
>I gather that we don't have to re-apply for email feed or sending to the
>feed?

You gather correctly! :-) Only the name has changed to protect the guilty.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2055. Re: [DAWG-HSMM] different numbers

Yahoo group: DAWG-HSMM
Date: 2011-03-11 04:07:14 UTC
From: Kipton Moravec
Topic: 2047 Message: 2055

On Thu, 2011-03-10 at 18:52 -0600, Rusty Haddock wrote:
> Mike Dominy wrote:
>
> >I have a big question to any and/or all of you. The Tom Green
> >Co. ARES group is working on its own HSMM-MESH system for mainly
> >emergency use from and/or to the EOC and the weather service, but
> >will also use it for other things.
> >
> >The question we have is: Does the routers have to have different
> >numbers to each of them to make the system work or what?
>
> What numbers are you talking about? If you're talking about the IP
> address (e.g. 10.205.133.43) then the firmware will select an IP
> address
> based upon the MAC address of the hardware. This will be the IP
> address
> for wifi side but is not guaranteed to be perfect. If two routers
> with
> the last three numbers of their MAC addresses match then you'll have
> to
> manually change one of them on the Setup page.
>
> >We have been to the main web site and looked at and download
> >everything we could possible think of using and all of the
> information
> >we could come up with on the system, but we are at the point that
> >we what to make sure we are doing it right.
>
> If you follow the instructions and download the firmware, set a
> password,
> and a node Id that's unique then you'll be doing everything right.
>
> >Any help on this will be grateful.
>
> Does this help, Mike?
>
> -Rusty-

The OLSR program will not break if there are two nodes with the same IP address if they are a number of hops away from each other. It will always go to the one with the fewest hops. Not sure what happens if both are the same number of hops. It may work with one for awhile and go back to the other one. Its results may be unpredictable.

Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2056. Re: [DAWG-HSMM] ntms-hsmm group name/addresses have changed

Yahoo group: DAWG-HSMM
Date: 2011-03-11 04:09:38 UTC
From: Floyd Rodgers
Topic: 2047 Message: 2056

I'm confused by the "not part of NTMS" comment. There is definitely a portion of the http://www.ntms.org/ website devoted to 802.11/HSMM. I personally am interested in "all" the efforts across the region including those in Collin county. This is especially true if we should ever get to the point of having a interconnected regional system.

2057. Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2011-03-14 17:58:40 UTC
From: Kipton Moravec
Topic: 2037 Message: 2057

This week we want to try sharing files across computers on the net.

Bring your computer and a Mesh Node, so you can participate.

Also Bring anything HSMM-MESH, APRS or Winlink that you want to show for Show and Tell.

We have scheduled a UI-View Workshop on April 9.

I will also open up at 6:30 p.m. for anyone having trouble installing the HSMM-MESH software on your router. I will have the latest version of software on my computer this time.

So the second Digital Tuesday will be at 7:00 p.m. March 15, 2011, at 299 Connor Lane, Lucas Texas 75002. Follow the driveway to the backyard gate, and there is a pool house in the back yard. That is where we will meet.

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2058. Re: Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2011-03-14 19:45:26 UTC
From: Rusty Haddock
Topic: 2037 Message: 2058

Kipton Moravec wrote:
>...
>I will also open up at 6:30 p.m. for anyone having trouble installing
>the HSMM-MESH software on your router. I will have the latest version
>of software on my computer this time.

If you want to try it on your own, David Rivenburg, AD5OO, wrote some
great instructions for doing your own install. They can be found here:

http://www.hsmm-mesh.org/documentation/68-firmware-installation-instructions.html

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2059. New machine question...?

Yahoo group: DAWG-HSMM
Date: 2011-03-16 17:57:49 UTC
From: Jerry K
Topic: 2059 Message: 2059

Hey Guys,

I have a Q for you high-tech wiss-kids.

My work station here is quite old. I need to upgrade hardware. However, I don't want to do a whole new hard drive format and reinstall software. Besides, some of my software was purchased via download or I have used up all my available installs, such as MS Office, etc...

So.... Is it possible to connect my old ATA hard drive somehow to a machine and move everything to a new SATA hard drive and my new machine upgrade is somewhat transparent? Or, bite the bullet and start from scratch? My old machine is XP Pro SP3.

tnx es 73 de Jerry KD5OM

2060. Re: [DAWG-HSMM] New machine question...?

Yahoo group: DAWG-HSMM
Date: 2011-03-16 18:18:05 UTC
From: John Donaldson
Topic: 2059 Message: 2060

Yep, I just did it. I ran out of hard drive space on a old 60GB IDE drive and had the local computer shop ghost it to a new 500GB SATA drive. When I booted the system, it was like nothing had happen except now I had over 400GB of free space.

I bought my main system back in 2001. Sinse then I have upgraded the power supply, motherboard, memory, processor, and now hard drive. The only item that is orginal is the case, LOL.

From: Jerry K <kd5oldman@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Wed, March 16, 2011 12:57:49 PM
Subject: [DAWG-HSMM] New machine question...?

Hey Guys,

I have a Q for you high-tech wiss-kids.

My work station here is quite old. I need to upgrade hardware. However, I don't want to do a whole new hard drive format and reinstall software. Besides, some of my software was purchased via download or I have used up all my available installs, such as MS Office, etc...

So.... Is it possible to connect my old ATA hard drive somehow to a machine and move everything to a new SATA hard drive and my new machine upgrade is somewhat transparent? Or, bite the bullet and start from scratch? My old machine is XP Pro SP3.

tnx es 73 de Jerry KD5OM

2061. Re: [DAWG-HSMM] New machine question...?

Yahoo group: DAWG-HSMM
Date: 2011-03-16 19:11:23 UTC
From: Floyd Rodgers
Topic: 2059 Message: 2061

somewhat easy fix:
find yourself a usb to sata drive adapter toy (newegg see below)
download xxclone http://www.xxclone.com/ or buy norton ghost
attach sat drive via usb toy to old computer
xxclone entire drive to new sata drive. new drive should be bootable,
but with xpro and all old files intact. Bad= killed whatever was on the
new sata drive including OS. Drivers for new hardware will not exist
when you boot the new drive in the new computer, so you get to play
fetch to fix those issues.

VANTEC CB-ISATAU2 SATA/IDE to USB 2.0 Adapter
<http://www.newegg.com/Product/Product.aspx?Item=N82E16812232002&cm_re=vantec_sata_to_usb-_-12-232-002-_-Product>

* *Type:* USB to IDE&SATA
* *Specifications:* Interface: SATA to USB 2.0 3.5"& 5.25"IDE to USB 2.0 2.5"IDE to USB 2.0 Dimensions: 70 x 43 x 10 mm Cable Length: 92cm (36in)
* *Features:* Transfer Rates Up to 12Mbps With USB 1.1 Transfer Rates Up to 480Mbps With USB 2.0 Easily add storage to any system with USB Currently supports up to 2 TB Supports ATA/ATAPI-7 Supports LBA-48 Addressing Hot-swappable: Plug and play without rebooting!
* *Package Contents:* SATA/IDE to USB 2.0 Adapter SATA Cable Power Cable Power Cord Power Adapter Driver Disk
* *Model #: *CB-ISATAU2
* *Item #: *N82E16812232002

OR

VANTEC CB-SATAU3 SATA I/II to SuperSpeed USB 3.0 Adapter
<http://www.newegg.com/Product/Product.aspx?Item=N82E16812232027&cm_re=vantec_sata_to_usb-_-12-232-027-_-Product>

* *Type:* SATA to USB 3.0
* *Specifications:* Supported Devices: SATA I/II Hard Drive Device Size: 2.5" or 3.5" Interface: USB 3.0 (Backwards Compatible with USB 2.0 & 1.1 HDD Capacity: Up to 2.0TB Power Supply: AC Adapter Material: Plastic Dimensions: 78 x 60 x 16mm OS Support: Windows 2000, XP/2003 32/64-bit, Vista 32/64-bit
* *Features:* Compact and Light Design for Easy Storage Supports Hard Drives Up to 2TB* Easily Add or Access Storage Anywhere on Any System Maximum Transfer Rates Up to 5 Gbps w/USB 3.0 Maximum Transfer Rates Up to 480 Mbps w/USB 2.0 Backwards-Compatible with USB 2.0 or 1.1 Hi-Quality Shielded USB 3.0
* *Parts:* 1 year limited

* *Model #: *CB-SATAU3
* *Item #: *N82E16812232027

On 3/16/2011 12:57 PM, Jerry K wrote:
>
> Hey Guys,
>
> I have a Q for you high-tech wiss-kids.
>
> My work station here is quite old. I need to upgrade hardware.
> However, I don't want to do a whole new hard drive format and
> reinstall software. Besides, some of my software was purchased via
> download or I have used up all my available installs, such as MS
> Office, etc...
>
> So.... Is it possible to connect my old ATA hard drive somehow to a
> machine and move everything to a new SATA hard drive and my new
> machine upgrade is somewhat transparent? Or, bite the bullet and start
> from scratch? My old machine is XP Pro SP3.
>
> tnx es 73 de Jerry KD5OM
>
>

2062. PARK at the Park -- This Sunday, Mar 20th

Yahoo group: DAWG-HSMM
Date: 2011-03-18 22:39:01 UTC
From: Rusty Haddock
Topic: 2062 Message: 2062

If you'd care to join us, Kip and I are planning to be in the Park, Russell Creek Park, this Sunday afternoon from about 1 to 5pm. This is part of the Plano ARK's "PARK at the Park" activity. Kip and I will have our routers, laptops, and whatnot there to tinker with. Since the weather is supposed to be nice this would be a GREAT time to get out of the shack, off the LazyBoy, and out into the fresh air and still "play radio". This park is fairly large so you can get a good idea as to how far your "plano" router (even if you're from Mesquite :-) will go and probably play with antennas to boost that.

I will also have some Belkin Batteries (12v UPS's) whose output plug matches the 12-Volt input on the WRT54G (except for version 1.0). So, if you didn't get one at Digital Tuesday you can get one Sunday afternoon.

Come join us! Have some fun!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2063. Digital Tuesday -- April 5th

Yahoo group: DAWG-HSMM
Date: 2011-04-04 20:08:50 UTC
From: Rusty Haddock
Topic: 2063 Message: 2063

Two demos on the agenda for Tuesday night:

1. Attaching an IP camera to your mesh node.
2. Wireless access to your mesh by adding an access point, back-to-back, to a mesh node.

Bring your computer and a mesh node so you can participate. Also bring anything HSMM-MESH, APRS or Winlink that you want to show for Show and Tell.

Meeting is at 7:00pm. Location is 299 Connor Ln, Lucas, TX (33.076433N, 96.573173W). Follow the driveway to the backyard gate, go around the pool to the pool house. Our meeting is in there.

Connor Ln comes off east from FM 1378/Southview Rd about 1/2-mile south of the East & West Lucas Rd split (traffic light at FINA/Lucas Foods).

Looking forward to see y'all there!

```
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2064. Digital Tuesday -- April 5th

Yahoo group: DAWG-HSMM
Date: 2011-04-05 23:25:06 UTC
From: Doug Garcia
Topic: 2063 Message: 2064

I wish I could attend the Digital Tuesday meeting. I am part of a group in El Paso that is working with HSMM and video. We are not able to access IP cameras directly through the Mesh nodes. We have started using WebCamXP software to setup a webpage that can support many cameras on the local mesh node. Viewing the streaming video on pc's attached to other nodes works very good. The downside is a computer is required on the node with the cameras. We will keep looking for a solution to eliminate the PC

Doug Garcia
AE5HE

From: "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Tue, April 5, 2011 5:44:32 AM
Subject: [DAWG-HSMM] Digest Number 679

Dallas Area Working Group - HSMM
Dallas Area Working Group - HSMM
Messages In This Digest (1 Message)

1.
Digital Tuesday -- April 5th From: Rusty Haddock View All Topics | Create New Topic Message

1.
Digital Tuesday -- April 5th
Posted by: "Rusty Haddock" rusty@... kd4wlz
Mon Apr 4, 2011 1:08 pm (PDT)

Two demos on the agenda for Tuesday night:

1. Attaching an IP camera to your mesh node.
2. Wireless access to your mesh by adding an access point, back-to-back, to a mesh node.

Bring your computer and a mesh node so you can participate. Also bring anything HSMM-MESH, APRS or Winlink that you want to show for Show and Tell.

Meeting is at 7:00pm. Location is 299 Connor Ln, Lucas, TX (33.076433N, 96.573173W). Follow the driveway to the backyard gate, go around the pool to the pool house. Our meeting is in there.

Connor Ln comes off east from FM 1378/Southview Rd about 1/2-mile south of the East & West Lucas Rd split (traffic light at FINA/Lucas Foods).

Looking forward to see y'all there!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

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Change settings via the Web (Yahoo! ID required)
Change settings via email: Switch delivery to Individual | Switch format to Traditional

Visit Your Group | Yahoo! Groups Terms of Use | Unsubscribe

2065. New file uploaded to DAWG-HSMM

Yahoo group: DAWG-HSMM
Date: 2011-04-06 08:42:04 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2065 Message: 2065

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the DAWG-HSMM
group.

File : /DigitalTuesday/olsr-topology.py
Uploaded by : kd4wlz <rusty@...>
Description : As promised... A re-write, in Python, of 'olsr-topology-view.pl' which is a Perl script that graphs the HSMM Mesh network. Added colorization and reduction of arrows in mesh graph. Like the original Perl script this Python script will run only on Linux because it needs ImageMagick and GraphViz to run. Don't even THINK about trying to run it on Windows.

You can access this file at the URL:
http://groups.yahoo.com/group/DAWG-HSMM/files/DigitalTuesday/olsr-topology.py

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

kd4wlz <rusty@...>

2066. Flagpole Car Stand

Yahoo group: DAWG-HSMM
Date: 2011-04-06 12:54:23 UTC
From: Kilgore
Topic: 2066 Message: 2066

Here are links to items that made up the antenna mounting system on display at the Digital Tuesday meeting.

Doug KD5OUG

Flag Pole
Watch for sale in local store.
http://www.harborfreight.com/catalogsearch/result?q=flag+pole

Flag pole car stand
http://www.united-states-flag.com/flag-pole-car-stand.html

2067. RE: [DAWG-HSMM] Flagpole Car Stand

Yahoo group: DAWG-HSMM
Date: 2011-04-06 16:24:12 UTC
From: Alan Brumley
Topic: 2066 Message: 2067

About that car stand...

Do you know the dimensions of the pipe I could insert in there?

I didn't see that called out in the item description.

Specifically, could I insert the standard issue fiberglass camo support tubes you see at all the ham swap meets?

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Kilgore
Sent: Wednesday, April 06, 2011 7:54 AM
To: HSMM Group
Subject: [DAWG-HSMM] Flagpole Car Stand

Here are links to items that made up the antenna mounting system on display at the Digital Tuesday meeting.

Doug KD5OUG

Flag Pole
Watch for sale in local store.
http://www.harborfreight.com/catalogsearch/result?q=flag+pole

Flag pole car stand
http://www.united-states-flag.com/flag-pole-car-stand.html

2068. Re: [DAWG-HSMM] Flagpole Car Stand

Yahoo group: DAWG-HSMM
Date: 2011-04-06 19:05:00 UTC
From: Kilgore
Topic: 2066 Message: 2068

I have the 16 foot aluminum pole from Harbor Freight. It's 2 in diameter. Fits snuggly into the car stand.

Doug

On 4/6/2011 11:24 AM, Alan Brumley wrote:

About that car stand...

Do you know the dimensions of the pipe I could insert in there?

I didn't see that called out in the item description.

Specifically, could I insert the standard issue fiberglass camo support tubes you see at all the ham swap meets?

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Kilgore
Sent: Wednesday, April 06, 2011 7:54 AM
To: HSMM Group
Subject: [DAWG-HSMM] Flagpole Car Stand

Here are links to items that made up the antenna mounting system on display at the Digital Tuesday meeting.

Doug KD5OUG

Flag Pole
Watch for sale ! in local store.
http://www.harborfreight.com/catalogsearch/result?q=flag+pole

Flag pole car stand
http://www.united-states-flag.com/flag-pole-car-stand.html

2069. Re: [DAWG-HSMM] Flagpole Car Stand

Yahoo group: DAWG-HSMM
Date: 2011-04-06 19:37:15 UTC
From: Rusty Haddock
Topic: 2066 Message: 2069

Alan Brumley wrote:
>About that car stand...
>
>Do you know the dimensions of the pipe I could insert in there?
>
>I didn't see that called out in the item description.

The description does state that their 18' White Titan flag pole works with the stand. Looking up this item shows the mast is 2" outside diameter made from 19 gauge steel (0.050" thickness).

>Specifically, could I insert the standard issue fiberglass camo support
>tubes you see at all the ham swap meets?

Dunno. You'll hafta do the math on that one. :-)

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2070. Ubiquiti Bullet Setup???

Yahoo group: DAWG-HSMM
Date: 2011-04-07 14:08:21 UTC
From: k0yr_tr
Topic: 2066 Message: 2070

I have a Ubuquiti Bullet on the tower with an omni vertical.
Has anyone set one of these up before for HSMM???
Tom, K0YR

2071. Re: [DAWG-HSMM] Digital Tuesday -- April 5th

Yahoo group: DAWG-HSMM
Date: 2011-04-07 14:52:43 UTC
From: Kipton Moravec
Topic: 2063 Message: 2071

Ye

On Tue, 2011-04-05 at 16:25 -0700, Doug Garcia wrote:
>
>
> I wish I could attend the Digital Tuesday meeting. I am part of a
> group in El Paso that is working with HSMM and video. We are not able
> to access IP cameras directly through the Mesh nodes.

Yes you should if it is set up correctly.

> We have started using WebCamXP software to setup a webpage that can
> support many cameras on the local mesh node. Viewing the streaming
> video on pc's attached to other nodes works very good. The downside is
> a computer is required on the node with the cameras. We will keep
> looking for a solution to eliminate the PC
>
>
> Doug Garcia
> AE5HE
>
>

Showing how this worked was what the meeting Tuesday night demonstrated.

There are actually two ways to do this. I will show you the easiest, but
I need to know some information about the IP camera.

Can you access the camera with a PC and web browser if the mesh node is
not in between? Does it have its own "web page" for control and watching
the video?

Does the camera get its address from a DHCP server? Or does it only work
with a static address?

Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2072. RE: [DAWG-HSMM] Ubiquiti Bullet Setup???

Yahoo group: DAWG-HSMM
Date: 2011-04-07 14:52:07 UTC
From: Alan Brumley
Topic: 2066 Message: 2072

I have that same hardware. I was interested in porting the mesh firmware over to it but haven't started yet. If you find anything or would like to work together, please CC the list, mainly so I don't reinvent the wheel.

Are you using the M2 HP (High Power) version? The regular version didn't look like it had the horsepower to be a decent mesh node.

-----Original Message-----
From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of k0yr_tr
Sent: Thursday, April 07, 2011 9:08 AM
To: DAWG-HSMM@yahoogroups.com
Subject: [DAWG-HSMM] Ubiquiti Bullet Setup???

I have a Ubuquiti Bullet on the tower with an omni vertical.
Has anyone set one of these up before for HSMM???
Tom, K0YR

Yahoo! Groups Links

2073. Re: Digital Tuesday -- April 5th

Yahoo group: DAWG-HSMM
Date: 2011-04-08 15:00:02 UTC
From: ae5he
Topic: 2063 Message: 2073

Here are the details:
We are using Trendnet TV-IP501W cameras.

They are wireless capable but we are using them with the wired ethernet port.

The cameras are accessable through a web browser.

We are able to control them with a PC on the same node.

The cameras are using static IP addresses.

Thanks for the help.

Doug Garcia

>
> Showing how this worked was what the meeting Tuesday night demonstrated.
>
> There are actually two ways to do this. I will show you the easiest, but
> I need to know some information about the IP camera.
>
> Can you access the camera with a PC and web browser if the mesh node is
> not in between? Does it have its own "web page" for control and watching
> the video?
>
> Does the camera get its address from a DHCP server? Or does it only work
> with a static address?
>
> Kip
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>
>
> --
> Kipton Moravec AE5IB .- . ... -...
>
> "Always do right; this will gratify some people and astonish the rest."
> --Mark Twain
>

2074. Re: [DAWG-HSMM] Re: Digital Tuesday -- April 5th

Yahoo group: DAWG-HSMM
Date: 2011-04-08 15:29:19 UTC
From: Kipton Moravec
Topic: 2063 Message: 2074

So the cameras can not get a DHCP address.

Set the IP address to 172.27.0.250 on the camera. This is out of the range of 172.27.0.5 - 172.27.0.25 the DHCP server on the MESH node defaults to.

Plug it into a LAN port.

Go to Setup.
Then Click on Port Forwarding, DHCP, and Services.

Under Port Forwarding
Interface WiFi
Type TCP
Outside port 80
LAN IP 172.27.0.250
LAN PORT 80

Then press Add

On the Advertised Services
Name Camera
Link: http
80

Then Press Add.

When you see this on another node in Mesh Status and you click on Camera you should see the camera screen.

Kip

On Fri, 2011-04-08 at 15:00 +0000, ae5he wrote:
> Here are the details:
> We are using Trendnet TV-IP501W cameras.
>
> They are wireless capable but we are using them with the wired ethernet port.
>
> The cameras are accessable through a web browser.
>
> We are able to control them with a PC on the same node.
>
> The cameras are using static IP addresses.
>
> Thanks for the help.
>
> Doug Garcia

>
> >
> > Showing how this worked was what the meeting Tuesday night demonstrated.
> >
> > There are actually two ways to do this. I will show you the easiest, but
> > I need to know some information about the IP camera.
> >
> > Can you access the camera with a PC and web browser if the mesh node is
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> > Does the camera get its address from a DHCP server? Or does it only work
> > with a static address?
> >
> > Kip
> >
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> > --
> > Kipton Moravec AE5IB .- . ... -...
> >
> > "Always do right; this will gratify some people and astonish the rest."
> > --Mark Twain
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> Yahoo! Groups Links
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--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2075. Re: Ubiquiti Bullet Setup???

Yahoo group: DAWG-HSMM
Date: 2011-04-09 15:37:58 UTC
From: k5osx
Topic: 2066 Message: 2075

--- In DAWG-HSMM@yahoogroups.com, "Alan Brumley" <abrumley@...> wrote:
>
> I have that same hardware. I was interested in porting the mesh firmware
> over to it but haven't started yet. If you find anything or would like to
> work together, please CC the list, mainly so I don't reinvent the wheel.

I've done some work towards porting hsmm to the picostation2. This is similar to the bullet2.

I've encountered a couple of headaches, such as:
- problems between microperl (and perl) and uhttpd which prevent perl scripts from displaying output on a web page
- the secure plugin for olsrd seems not to be endian independent. Rusty has mentioned that atheros is big endian, and the radio in the linksys routers is little endian.

I'm currently using openwrt's backfire release. I have been able to link a pico2 to a linksys hsmm router, but the environment on my pico2 was *not* hsmm because nothing was automatic, and I had the secure plugin disabled.

> Are you using the M2 HP (High Power) version? The regular version didn't
> look like it had the horsepower to be a decent mesh node.

Don't forget that the stock linksys has 60mw output, and yet the Austin folks and others in North Texas have demonstrated that that platform has quite enough horsepower to serve as a decent mesh node. ;) And, as hams, we all know that it is really the antenna that is the most important. :)

robert

>
>
>
>
> -----Original Message-----
> From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf
> Of k0yr_tr
> Sent: Thursday, April 07, 2011 9:08 AM
> To: DAWG-HSMM@yahoogroups.com
> Subject: [DAWG-HSMM] Ubiquiti Bullet Setup???
>
> I have a Ubuquiti Bullet on the tower with an omni vertical.
> Has anyone set one of these up before for HSMM???
> Tom, K0YR
>
>
>

> ---
>
> Yahoo! Groups Links
>

2076. Re: [ntms-hsmm] Network Manager Software

Yahoo group: DAWG-HSMM
Date: 2011-04-10 22:31:23 UTC
From: n5skt
Topic: 2038 Message: 2076

Not sure this fits the whole bill but take a look at nmap which can do part of the job. I use "nmap -sP " to look at my network at home.
Don

http://nmap.org/

--- In DAWG-HSMM@yahoogroups.com, Keith Berry <berryko@...> wrote:
>
> Try Spiceworks http://www.spiceworks.com/
>
>
>
>
> _____
> From: Jerry K <kd5oldman@...>
> To: ntms-hsmm@yahoogroups.com
> Sent: Mon, February 28, 2011 3:54:20 PM
> Subject: [ntms-hsmm] Network Manager Software
>
> Â
> Can anybody suggest to me a network management software? One that will show me
> all the various IP/Sub-net/Etc... of all the devices on my network and help me
> find conflicts?
>
> Jerry KD5OM
>

2077. Re: Ubiquiti Bullet Setup???

Yahoo group: DAWG-HSMM
Date: 2011-04-15 18:41:01 UTC
From: n5skt
Topic: 2066 Message: 2077

I have the M2HP, Rocket and a Router Station Pro. I am currently porting on the RSPro because I have direct serial access to it. I just got the latest firmware on it but have not begun actually trying to connect it to my existing 54GLs yet. I don't think with Bullet, Rocket, and even RSPro that the ease of installation that exists with the WRTs is going to be that clean. At least not at first. Each of these seems to be using a slightly different driver (ie ath5k or ath9k). Also, OpenWrt default install does not include either the drivers, olsr, perl or wpad package.
Don
--- In DAWG-HSMM@yahoogroups.com, "Alan Brumley" <abrumley@...> wrote:
>
> I have that same hardware. I was interested in porting the mesh firmware
> over to it but haven't started yet. If you find anything or would like to
> work together, please CC the list, mainly so I don't reinvent the wheel.
>
> Are you using the M2 HP (High Power) version? The regular version didn't
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>
> -----Original Message-----
> From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf
> Of k0yr_tr
> Sent: Thursday, April 07, 2011 9:08 AM
> To: DAWG-HSMM@yahoogroups.com
> Subject: [DAWG-HSMM] Ubiquiti Bullet Setup???
>
> I have a Ubuquiti Bullet on the tower with an omni vertical.
> Has anyone set one of these up before for HSMM???
> Tom, K0YR
>
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> Yahoo! Groups Links
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2078. Re: [DAWG-HSMM] Re: Ubiquiti Bullet Setup???

Yahoo group: DAWG-HSMM
Date: 2011-04-17 22:23:22 UTC
From: Robert Ellis
Topic: 2066 Message: 2078

Should there be a little discussion before hand to consider what UCI settings should be used for HSMM-MESH on the Ubiquiti platforms? After all, the ubiquiti hardware lacks NVRAM...

I'd be happy to forward information on how I've been creating an hsmm-olsrd opkg package. And I have a skeleton for an hsmm opkg package. Both are used to create packages for installation on a pico2 (just the base model, not an hp or an m2hp model). These packages are both work in progress, but they might help you if you are starting from scratch.

robert

On Apr 15, 2011, at 1:41 PM, n5skt wrote:

> I have the M2HP, Rocket and a Router Station Pro. I am currently porting on the RSPro because I have direct serial access to it. I just got the latest firmware on it but have not begun actually trying to connect it to my existing 54GLs yet. I don't think with Bullet, Rocket, and even RSPro that the ease of installation that exists with the WRTs is going to be that clean. At least not at first. Each of these seems to be using a slightly different driver (ie ath5k or ath9k). Also, OpenWrt default install does not include either the drivers, olsr, perl or wpad package.
> Don
> --- In DAWG-HSMM@yahoogroups.com, "Alan Brumley" <abrumley@...> wrote:
>>
>> I have that same hardware. I was interested in porting the mesh firmware
>> over to it but haven't started yet. If you find anything or would like to
>> work together, please CC the list, mainly so I don't reinvent the wheel.
>>
>> Are you using the M2 HP (High Power) version? The regular version didn't
>> look like it had the horsepower to be a decent mesh node.
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>>
>>
>> -----Original Message-----
>> From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf
>> Of k0yr_tr
>> Sent: Thursday, April 07, 2011 9:08 AM
>> To: DAWG-HSMM@yahoogroups.com
>> Subject: [DAWG-HSMM] Ubiquiti Bullet Setup???
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>> I have a Ubuquiti Bullet on the tower with an omni vertical.
>> Has anyone set one of these up before for HSMM???
>> Tom, K0YR
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2079. Digital Tuesday (Plano-style) April 19th

Yahoo group: DAWG-HSMM
Date: 2011-04-18 20:31:35 UTC
From: Rusty Haddock
Topic: 2079 Message: 2079

Ok! Now that you're done with your taxes we're having another Digital Tuesday in the Plano area (Lucas, TX, technically).

Two items (at least) for Tuesday night:

1. Wireless access to your mesh by adding an access point, back-to-back, to a mesh node.
2. Show and Tell -- bring something digital that you've been playing, er...., working on for the rest of the crowd to see and discuss.

I will try to take video with sound of the meeting and make it available to those wanting to see how we can mess up a perfectly good meeting. :-) Let me know if you'd like to download it and I'll pass along the URL once it's available.

Meeting is at 7:00pm. Location is 299 Connor Ln, Lucas, TX (33.076433N, 96.573173W). Follow the driveway to the backyard gate, go around the pool to the pool house. Our meeting is in there.
Map is here: http://goo.gl/maps/EVub

Connor Ln comes off east from FM 1378/Southview Rd about 1/2-mile south of the East & West Lucas Rd split (traffic light at FINA/Lucas Foods).

Looking forward to see y'all there!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2080. Goodwill Computer Store Grand Opening

Yahoo group: DAWG-HSMM
Date: 2011-04-19 19:10:44 UTC
From: Kilgore
Topic: 2080 Message: 2080

There was an ad in the paper for the Apr 22 Grand Opening of the Goodwill Computer Store 1919 N. Haskell, Dallas. Maybe we can pick up Linksys routers there.

Doug

2081. Digital Tuesday notices

Yahoo group: DAWG-HSMM
Date: 2011-04-20 00:13:57 UTC
From: Brian
Topic: 2081 Message: 2081

Any chance of posting these a bit earlier? They seem to show up in my mailbox the day before, which doesn't leave much time for planning. (I want to drop by, but can never figure out which Tuesday until it's too late!)

Even a couple of days in advance would be extremely helpful...

--Brian/WA3ITE

2082. Re: [DAWG-HSMM] Digital Tuesday notices

Yahoo group: DAWG-HSMM
Date: 2011-04-20 06:50:14 UTC
From: Rusty Haddock
Topic: 2081 Message: 2082

Currently we're meeting on the first and third Tuesdays of the month so mark your calendar appropriately. We may go to once a month after the Wild Ride event in May.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2083. Re: [DAWG-HSMM] Digital Tuesday notices

Yahoo group: DAWG-HSMM
Date: 2011-04-20 09:37:10 UTC
From: Travus T. Elm - discoverpc.NET
Topic: 2081 Message: 2083

Rusty Haddock <rusty@...> wrote:

Currently we're meeting on the first and third Tuesdays of the month
so mark your calendar appropriately. We may go to once a month after
the Wild Ride event in May.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2084. Re: [DAWG-HSMM] Digital Tuesday notices

Yahoo group: DAWG-HSMM
Date: 2011-04-20 14:48:42 UTC
From: Don Weeks
Topic: 2081 Message: 2084

I would also like to attend these and have been watching this group. Can you let me know again where it is located? I think it is in Lucas but beyond that, I don't know.
Don

On Wed, Apr 20, 2011 at 4:37 AM, Travus T. Elm - discoverpc.NET <
travus@...> wrote:

```
>
>
> Rusty Haddock <rusty@...> wrote:
>
>
>
>
> Currently we're meeting on the first and third Tuesdays of the month
> so mark your calendar appropriately. We may go to once a month after
> the Wild Ride event in May.
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | ( -< O o Van Alstyne (TX) Metropolitan Area
> |/\__V__/ Math illiteracy affects 7 out of 5 people!
>
>
```

2085. Re: [DAWG-HSMM] Digital Tuesday notices

Yahoo group: DAWG-HSMM
Date: 2011-04-20 17:51:32 UTC
From: Kipton Moravec
Topic: 2081 Message: 2085

The meetings are also posted on the Calender on the PARK website.

http://www.k5prk.net.

Kip

On Wed, 2011-04-20 at 09:48 -0500, Don Weeks wrote:
>
>
> I would also like to attend these and have been watching this group.
> Can you let me know again where it is located? I think it is in Lucas
> but beyond that, I don't know.
> Don
>
> On Wed, Apr 20, 2011 at 4:37 AM, Travus T. Elm - discoverpc.NET
> <travus@...> wrote:
>
> Rusty Haddock <rusty@...> wrote:
>
>
> Currently we're meeting on the first and third Tuesdays of the
> month
> so mark your calendar appropriately. We may go to once a month
> after
> the Wild Ride event in May.
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2086. Fwd: Fw: More on Time Warner Cable Thefts - Reward Offered

Yahoo group: DAWG-HSMM
Date: 2011-04-25 18:39:31 UTC
From: Kilgore
Topic: 2086 Message: 2086
Attachments: 5 described; binary payloads are missing from this source WARC

This information is provided to you as a service of your Reservation Home Owners Association (RHOA). Click on the following link to access the RHOA Web site: http://www.reservationhoa.com

If you do not wish to continue receiving these messages, please contact me at tomther@... and you will be
removed from the list. If you know of someone in the Reservation who would like to be added to the list, please have them contact me at the same address.

Tom Courtney
tomther@...
++

Time Warner Cable will provide a cash reward of up to $10,000.00 for information leading to the arrest of individuals or groups responsible for the theft of Time Warner Cable equipment in the Dallas area.

1-888-824-8041

Power Supply Module Copper Coil – From inside Power Supply

Lead Cell Battery - Approximately 75 lbs Power Supply Cabinet

Terms and Conditions: "Arrest" means that an individual associated with the plant vandalism is apprehended and taken into custody, either voluntarily or involuntarily, by officials of the United States, regardless of whether or not he/she is subsequently released. The rules and conditions related to this reward offer may be amended from time to time, and all such amendments will be posted on TWC’s website.

2087. Digital Tuesday video from 4/19/2011 (fwd)

Yahoo group: DAWG-HSMM
Date: 2011-04-28 21:38:33 UTC
From: Rusty Haddock
Topic: 2087 Message: 2087

Sorry, vvvvvvvvvvv--- I fat-fingered the DAWG address. :-o
To: dawg-hsmm@..., mesquite-hsmm@yahoogroups.com,
austin_hsmm_development@yahoogroups.com
From: Rusty Haddock <rusty@...>
Subject: Digital Tuesday video from 4/19/2011
Date: Thu, 28 Apr 2011 16:25:38 -0500
Organization: 1/entropy

OK, here it is. Two things: the image isn't the greatest and not much
for detail but this was part of getting the filesize down to a 58-MByte
MPEG file from the original 2-GByte.

Upon inspection at the meeting I thought the camera had run out
of battery. Nope, it ran out of memory. The blank 2GB card was
not enough for more than about the first 28-minutes of the meeting.
I'll dig into the manual and see what more I can do besides getting a
larger memory card.

Folks, please don't complain about the video being too bright,
sound too low, seemingly not in focus -- I know, I've seen it a few
times myself. It's just my little digital camera that's setup and
fixed on a tripod in the back of the room so the rest of y'all can
see what goes on at our little meetings (besides the boozing, drugs,
and party girls afterwards :-). That's just the way it's gonna be.

Our Digital Tuesdays (Plano-style) are fairly loosely formatted -- a
couple of presentations and lots of questions and answers. And sometimes
things don't always work the way they're s'pose to. :-)

In this "episode" Kip starts out with is talking about the 'Wild Ride'
event in Richardson, TX. Later he gets into attaching a DD-WRT loaded
Buffalo router as an Internet gateway for the mesh with an Android phone
(I think it was).

Download from here:
http://myweb.cableone.net/rhaddock/Xfers/Radio/Digi_Tues_20110419.mpg

Filesize is 57,812,992-bytes so act accordingly. As I'm able to record
more of the meetings this file size will undoubtably grow significantly.
It may probably be best if you simply command-line it by using 'wget'.
Windows folks - wget is available for you too if you just Google "wget
Windows" but IE may make it viewable for you -- I dunno. Go with whatever
works for you.

Enjoy!
-Rusty-

P.S. Our next Digital Tuesday meeting for Plano, TX will be next Tuesday, May 3rd.

--

```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2088. Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2011-04-28 21:42:07 UTC
From: Kipton Moravec
Topic: 2037 Message: 2088

Tuesday May 3rd is the next Digital Tuesday.

7:00 start time
6:30 if you want help loading MESH software on your router.

299 Connor Lane
Lucas, TX 75002

Follow the driveway to the back gate, and into the pool house.

Program will be figured out this weekend... :)

Kip
--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2089. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2011-04-29 00:04:38 UTC
From: dbspratt@juno.com
Topic: 2037 Message: 2089
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2090. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2011-04-29 00:20:31 UTC
From: Kipton Moravec
Topic: 2037 Message: 2090

I like DD-WRT because I know DD-WRT. I like the interface. Almost all features are available via GUI.

I only install it on routers that are too small for HSMM-MESH. If you have a wrt54gl I would put HSMM-MESH on it and find a $20 router (supported by DD-WRT) for DD-WRT.

I have heard good things about Tomato, but I have not seen it, or played with it.

Kip

On Fri, 2011-04-29 at 00:04 +0000, dbspratt@... wrote:
> Kip, I have a wrt54gl with Tomato o/s installed(another wrt54g v2 that has HSMM-mesh). Should I put dd-wrt on the gl, or leave Tomato installed? Reason?
>
> David
>
> Please note: message attached
>
> From: Kipton Moravec <kip@...>
> To: DAWG-HSMM@yahoogroups.com
> Subject: [DAWG-HSMM] Digital Tuesday
> Date: Thu, 28 Apr 2011 16:42:07 -0500
>
>
> _____
> Penny Stock Jumping 3000%
> Sign up to the #1 voted penny stock newsletter for free today!
> http://thirdpartyoffers.juno.com/TGL3141/4dba00f1e1cb4156967st01vuc
>
> ---
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> Yahoo! Groups Links
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>
> email message attachment
> > -------- Forwarded Message --------
> > From: Kipton Moravec <kip@...>
> > To: DAWG-HSMM@yahoogroups.com
> > Subject: [DAWG-HSMM] Digital Tuesday
> > Date: Thu, 28 Apr 2011 16:42:07 -0500
> > Mailer: Evolution 2.28.3
> >
> >

> > Tuesday May 3rd is the next Digital Tuesday.
> >
> > 7:00 start time
> > 6:30 if you want help loading MESH software on your router.
> >
> > 299 Connor Lane
> > Lucas, TX 75002
> >
> > Follow the driveway to the back gate, and into the pool house.
> >
> > Program will be figured out this weekend... :)
> >
> > Kip
> > --
> > Kipton Moravec AE5IB .- . ... -...
> >
> > "Always do right; this will gratify some people and astonish the
> > rest."
> > --Mark Twain
> >
> >
> >
> >

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2091. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2011-04-29 01:44:42 UTC
From: dbspratt@juno.com
Topic: 2037 Message: 2091
Attachments: 1 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2092. Ubiquity HSMM

Yahoo group: DAWG-HSMM
Date: 2011-05-01 15:38:55 UTC
From: Don Weeks
Topic: 2092 Message: 2092

I have had some success in getting a Backfire image created that meshes with the 54GL HSMM nodes I have running. The platform at this point is an Ubiquity Routerstation Pro but the image is built to support Bullet, Rocket, and Nanostation. I will move to a Bullet soon as I have those and have no access to a Nanostation. The image consists of a standard OpenWrt backfire checkout with OLSRd built directly from the OpenWrt backfire load. The Backfire trunk now contains OLSRd 0.6.1 so I don't have to add it in. I also am using a standard uHttp, Luci frontend. I have not ported the HSMM front end. Most of the changes I have made have been hacked in by hand including adding my call sign, olsrd configuration, wireless configuration and others. I know I need to make this into a more complete image but that will take more time and I know others have expressed interest in Ubiquity products. I am willing to share with other developers configuration files and build techniques. What I need now is to learn how to build a customized image. I may go and ask for a branch in svn to check in what I have working so far. It depends on that as it is not far off the OpenWrt standard image. Backfire is quite different from Kamikaze so be prepared for that. The only thing I have ended up keeping so far from Kamikaze is the olsrd key file.
Don <N5SKT>

2093. Re: Ubiquity HSMM

Yahoo group: DAWG-HSMM
Date: 2011-05-02 01:51:49 UTC
From: n5skt
Topic: 2092 Message: 2093

I encountered the same problem that Rusty has found with this. Since we know that the security plugin is broke, I would recommend that it be taken out in favor of access to more equipment. Ubiquity Bullets are cheap ($39 list new), already ruggedized, and easy to install.

2094. Re: [DAWG-HSMM] Ubiquity HSMM

Yahoo group: DAWG-HSMM
Date: 2011-05-02 13:49:58 UTC
From: Bryan Ramsey
Topic: 2092 Message: 2094

Speaking of the Ubiquity Bullets, I'm in Springtown, TX and I currently have a WRT-54G installed in a "Rootenna" on the roof, but I've found no one in the area to link up with. I was wondering if the Ubiquity Bullet is the "go to" radio and if anyone was actively using them to extend the mesh network? Thanks in advance!

Bryan - KD5GGC

On Sun, May 1, 2011 at 10:38 AM, Don Weeks <dlweeks@...> wrote:

>
>
> I have had some success in getting a Backfire image created that meshes
> with the 54GL HSMM nodes I have running. The platform at this point is
> an Ubiquity Routerstation Pro but the image is built to support Bullet,
> Rocket, and Nanostation. I will move to a Bullet soon as I have those
> and have no access to a Nanostation. The image consists of a standard
> OpenWrt backfire checkout with OLSRd built directly from the OpenWrt
> backfire load. The Backfire trunk now contains OLSRd 0.6.1 so I don't
> have to add it in. I also am using a standard uHttp, Luci frontend. I
> have not ported the HSMM front end. Most of the changes I have made have
> been hacked in by hand including adding my call sign, olsrd
> configuration, wireless configuration and others. I know I need to make
> this into a more complete image but that will take more time and I know
> others have expressed interest in Ubiquity products. I am willing to
> share with other developers configuration files and build techniques.
> What I need now is to learn how to build a customized image. I may go
> and ask for a branch in svn to check in what I have working so far. It
> depends on that as it is not far off the OpenWrt standard image.
> Backfire is quite different from Kamikaze so be prepared for that. The
> only thing I have ended up keeping so far from Kamikaze is the olsrd key
> file.
> Don <N5SKT>
>
>

2095. Re: Ubiquity HSMM

Yahoo group: DAWG-HSMM
Date: 2011-05-02 15:50:26 UTC
From: John Spoonhower
Topic: 2092 Message: 2095

I am interested in this development project. I am wondering how to get access to the svn repository.
I haven't got any response using the email to the webmaster link provided on the web site.
73,
John, NX2I

2096. Digital Tuesday (Plano-style) May 3rd (fwd)

Yahoo group: DAWG-HSMM
Date: 2011-05-02 20:22:43 UTC
From: Rusty Haddock
Topic: 2096 Message: 2096

Three items (at least) for Tuesday night:

1. Prep for a Lake Lavon outing for this Saturday. Get out and experience a mesh that's working outside. Please participate in this event even if it's just putting your mesh node up on a piece of PVC, a long 2x4, or the top of your car. Bring your HT (mobile rig will do too), WRT54G, battery, laptop, fishing pole, bait, whatever. Hopefully the weather will cooperate.

2. Plans for Wild Ride. What can YOU do to help?

3. Setting up and doing DEMOS for HamCom.

4. I may give a quick summary of my trip to the Austin Digital Wednesday of last week.

I will try to take video with sound of the meeting and make it available to those wanting to see how we can mess up a perfectly good meeting. :-) Let me know if you'd like to download it and I'll pass along the URL once it's available. Maybe this time I can get more that 28-minutes.

Meeting is at 7:00pm. Location is 299 Connor Ln, Lucas, TX (33.076433N, 96.573173W). Follow the driveway to the backyard gate, go around the pool to the pool house. Our meeting is in there.
Map is here: http://goo.gl/maps/EVub

Connor Ln comes off east from FM 1378/Southview Rd about 1/2-mile south of the East & West Lucas Rd split (traffic light at FINA/Lucas Foods).

Looking forward to see y'all there!

-Rusty-

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2097. Re: [DAWG-HSMM] Re: Ubiquity HSMM

Yahoo group: DAWG-HSMM
Date: 2011-05-02 22:16:06 UTC
From: Don Weeks
Topic: 2092 Message: 2097

It took me a while to get access but hang in there. He is very busy and will get to as soon as he can. The Ubiquity code is not in the HSMM SVN but is straight from OpenWrt which you can directly access.
Don

On 5/2/2011 10:50 AM, John Spoonhower wrote:
>
> I am interested in this development project. I am wondering how to get
> access to the svn repository.
> I haven't got any response using the email to the webmaster link
> provided on the web site.
> 73,
> John, NX2I
>
>

2098. Re: [DAWG-HSMM] Digital Tuesday (Plano-style) May 3rd (fwd)

Yahoo group: DAWG-HSMM
Date: 2011-05-02 22:16:23 UTC
From: Josh Mercer
Topic: 2096 Message: 2098

I won't be able to attend the meeting as I will be out of town for work, but am interested in the Lake Lavon outing and the Wild Ride event. Will any details be sent out about that for those of us that are local but won't be at the meeting?

ke5fco

On 5/2/2011 3:22 PM, Rusty Haddock wrote:
>
> Three items (at least) for Tuesday night:
>
> 1. Prep for a Lake Lavon outing for this Saturday. Get out and
> experience a mesh that's working outside. Please participate
> in this event even if it's just putting your mesh node up on a
> piece of PVC, a long 2x4, or the top of your car. Bring your HT
> (mobile rig will do too), WRT54G, battery, laptop, fishing pole,
> bait, whatever. Hopefully the weather will cooperate.
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> 2. Plans for Wild Ride. What can YOU do to help?
>
> 3. Setting up and doing DEMOS for HamCom.
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> 4. I may give a quick summary of my trip to the Austin Digital
> Wednesday of last week.
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> I will try to take video with sound of the meeting and make it available
> to those wanting to see how we can mess up a perfectly good meeting. :-)
> Let me know if you'd like to download it and I'll pass along the URL
> once it's available. Maybe this time I can get more that 28-minutes.
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> 96.573173W). Follow the driveway to the backyard gate, go around the
> pool to the pool house. Our meeting is in there.
> Map is here: http://goo.gl/maps/EVub
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> Connor Ln comes off east from FM 1378/Southview Rd about 1/2-mile south
> of the East & West Lucas Rd split (traffic light at FINA/Lucas Foods).
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> Looking forward to see y'all there!
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>
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>
>
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2099. Re: [DAWG-HSMM] Ubiquity HSMM

Yahoo group: DAWG-HSMM
Date: 2011-05-02 22:23:37 UTC
From: Don Weeks
Topic: 2092 Message: 2099

Right now the 54G/GL is the goto radio so you are fine. The Ubiquity line is in the works. What I like about Ubiquities are their packaging which is already ruggedized and that they are easy to install. Bullets run $39 list. The issue you will have is getting an outdoor antenna. I actually go N to R-SMA and use some off the shelf from Fry's indoor antennas in my testing. For pure meshing and outdoor installations, I can tell you that commercially, we use Bullet/Rockets.
Don

On 5/2/2011 8:49 AM, Bryan Ramsey wrote:
>
> Speaking of the Ubiquity Bullets, I'm in Springtown, TX and I
> currently have a WRT-54G installed in a "Rootenna" on the roof, but
> I've found no one in the area to link up with. I was wondering if the
> Ubiquity Bullet is the "go to" radio and if anyone was actively using
> them to extend the mesh network? Thanks in advance!
>
>
> Bryan - KD5GGC
>
> On Sun, May 1, 2011 at 10:38 AM, Don Weeks <dlweeks@...
> <mailto:dlweeks@...>> wrote:
>
> I have had some success in getting a Backfire image created that
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> with the 54GL HSMM nodes I have running. The platform at this
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> an Ubiquity Routerstation Pro but the image is built to support
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> Rocket, and Nanostation. I will move to a Bullet soon as I have those
> and have no access to a Nanostation. The image consists of a standard
> OpenWrt backfire checkout with OLSRd built directly from the OpenWrt
> backfire load. The Backfire trunk now contains OLSRd 0.6.1 so I don't
> have to add it in. I also am using a standard uHttp, Luci frontend. I
> have not ported the HSMM front end. Most of the changes I have
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> been hacked in by hand including adding my call sign, olsrd
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> What I need now is to learn how to build a customized image. I may go
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> depends on that as it is not far off the OpenWrt standard image.
> Backfire is quite different from Kamikaze so be prepared for that.
> The
> only thing I have ended up keeping so far from Kamikaze is the
> olsrd key
> file.
> Don <N5SKT>
>
>
>

2100. Re: [DAWG-HSMM] Digital Tuesday (Plano-style) May 3rd (fwd)

Yahoo group: DAWG-HSMM
Date: 2011-05-02 22:28:43 UTC
From: Don Weeks
Topic: 2096 Message: 2100

Information I received on Wild Ride:

May 21, 2011 Richardson WildRide! Against Cancer Bike Rally and 5K Walk/Run.
Ham radio operators are needed to provide communications for this Saturday morning event.

The 64 mile bike route will travel from Richardson NE to Josephine, TX and back. The 5K Walk/Run leaves from the same parking lot at the Verizon building.

Six rest stops will be manned with both voice and digital operators. Each stop will be connected to the internet and the digital operator will take digital still photos and upload them to a website for display back at the Start/Finish. A laptop or notebook computer will be needed for uploading. Though not required, it would be a definite plus if the digital operator has an HSMM-MESH 802.11 node.

Hams are needed with vehicles that can be used as SAG vehicles. Also needed are operators with transferable radios to work in the supply vehicles.

Ten APRS trackers are needed for SAG and supply vehicles. We will be operating VHF and UHF.

Please volunteer by filling out the form at:

http://www.emailmeform.com/builder/form/PB21Ix9t2D4Xr3b96K8hc6Vi5

or contact Doug Kilgore KD5OUG <kd5oug@...> <mailto:kd5oug@...>

On 5/2/2011 5:16 PM, Josh Mercer wrote:
>
> I won't be able to attend the meeting as I will be out of town for
> work, but am interested in the Lake Lavon outing and the Wild Ride
> event. Will any details be sent out about that for those of us that
> are local but won't be at the meeting?
>
> ke5fco
>
> On 5/2/2011 3:22 PM, Rusty Haddock wrote:
>
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>> (mobile rig will do too), WRT54G, battery, laptop, fishing pole,
>> bait, whatever. Hopefully the weather will cooperate.
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>> 3. Setting up and doing DEMOS for HamCom.
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>> 4. I may give a quick summary of my trip to the Austin Digital
>> Wednesday of last week.
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>> I will try to take video with sound of the meeting and make it available
>> to those wanting to see how we can mess up a perfectly good meeting. :-)
>> Let me know if you'd like to download it and I'll pass along the URL
>> once it's available. Maybe this time I can get more that 28-minutes.
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>> Meeting is at 7:00pm. Location is 299 Connor Ln, Lucas, TX (33.076433N,
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>> pool to the pool house. Our meeting is in there.
>> Map is here: http://goo.gl/maps/EVub
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>> Connor Ln comes off east from FM 1378/Southview Rd about 1/2-mile south
>> of the East & West Lucas Rd split (traffic light at FINA/Lucas Foods).
>>
>> Looking forward to see y'all there!
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>>
>> --
>> _____ Rusty Haddock <=> AE5AE
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>>
>
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2101. Re: [DAWG-HSMM] Digital Tuesday (Plano-style) May 3rd

Yahoo group: DAWG-HSMM
Date: 2011-05-03 00:39:15 UTC
From: Rusty Haddock
Topic: 2101 Message: 2101

Josh Mercer wrote:
>I won't be able to attend the meeting as I will be out of town for work,
>but am interested in the Lake Lavon outing and the Wild Ride event. Will
>any details be sent out about that for those of us that are local but
>won't be at the meeting?

As for the Lake Lavon outing: my plan is to get a group together and dispatch everyone to a different place around the (mostly) southern side of Lake Lavon. From there, probably have everyone elevated their WRT54G's in some way, even if it's a 10-ft piece of PVC or a 2x4. Heck, you'd be surprised how good of a ground plane your car roof provides. :)

The idear here is to create a mesh connecting some of the various and sundry little public parks around the lake. Most of the links will be on the order of 2-miles between nodes so some reasonable elevation will be needed. If we can get an internet connection then maybe I can get an Echolink proxy or maybe even a Jabber server up and running so that we can voice or text chat. Worst case we'll have 2m or 70cm to chat on.

Here's a URL that should point to my Google Map for various locations.

http://goo.gl/maps/9Jj4

Any thoughts?

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2102. Digital Tuesday, Lake Lavon activity update

Yahoo group: DAWG-HSMM
Date: 2011-05-04 06:05:07 UTC
From: Rusty Haddock
Topic: 2101 Message: 2102

Rusty Haddock wrote:
>As for the Lake Lavon outing: my plan is to get a group together and
>dispatch everyone to a different place around the (mostly) southern
>side of Lake Lavon. From there, probably have everyone elevated their
>WRT54G's in some way, even if it's a 10-ft piece of PVC or a 2x4. Heck,
>you'd be surprised how good of a ground plane your car roof provides. :)
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>The idear here is to create a mesh connecting some of the various and
>sundry little public parks around the lake. Most of the links will be
>on the order of 2-miles between nodes so some reasonable elevation will
>be needed. If we can get an internet connection then maybe I can get
>an Echolink proxy or maybe even a Jabber server up and running so that
>we can voice or text chat. Worst case we'll have 2m or 70cm to chat on.
>
>Here's a URL that should point to my Google Map for various locations.
>
> http://goo.gl/maps/9Jj4
>
>Any thoughts?

Per the meeting this past evening, our current plans are to meet at
2pm this Saturday, May 7th. Initial congregation will be at the usual
Digi Tuesday meeting place at 299 Connor Ln, Lucas, TX. From there we
will select our locations from the map (URL is above), make sure our
equipment is functioning correctly, and then take our places around the
lake from there.

Talk-in will be on the Plano (PARK) 2m repeater, 147.180+ PL/107.2.

I will try to send out a notice no later than noon if the weather looks to
be too ugly and we'll try to resked for some other time. Participants are
welcome to send me an email and I'll reply with my cell phone number if
you will be unable to check your email after noon. Or you can send me
your cellphone and I can call or text you IF IT'S A NO-GO. Yer call.

Let's have some fun! And don't forget, a 104" CB whip makes a dandy
fishing pole! :-D Don't ferget yer fishin' license.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
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|/__V__/ Math illiteracy affects 7 out of 5 people!

2103. Re: [DAWG-HSMM] Digital Tuesday, Lake Lavon activity update

Yahoo group: DAWG-HSMM
Date: 2011-05-04 06:13:12 UTC
From: Todd Caldwell
Topic: 2101 Message: 2103

Wish I could make this one. Less than a week's warning was too little
for me in this case. If it was announced earlier, I must have missed
it. I'll be in Murphy while you guys are at the lake. I'll plug the
node in the truck in, just in case. :)

I'll make it up to Digital Tuesday one of these weeks.

73's de K5SLR
Todd Caldwell
Mesquite, TX

Rusty Haddock wrote:
> Rusty Haddock wrote:
> >As for the Lake Lavon outing: my plan is to get a group together and
> >dispatch everyone to a different place around the (mostly) southern
> >side of Lake Lavon. From there, probably have everyone elevated their
> >WRT54G's in some way, even if it's a 10-ft piece of PVC or a 2x4. Heck,
> >you'd be surprised how good of a ground plane your car roof provides. :)
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> >The idear here is to create a mesh connecting some of the various and
> >sundry little public parks around the lake. Most of the links will be
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> >be needed. If we can get an internet connection then maybe I can get
> >an Echolink proxy or maybe even a Jabber server up and running so that
> >we can voice or text chat. Worst case we'll have 2m or 70cm to chat on.
> >
> >Here's a URL that should point to my Google Map for various locations.
> >
> > http://goo.gl/maps/9Jj4
> >
> >Any thoughts?
>
> Per the meeting this past evening, our current plans are to meet at
> 2pm this Saturday, May 7th. Initial congregation will be at the usual
> Digi Tuesday meeting place at 299 Connor Ln, Lucas, TX. From there we
> will select our locations from the map (URL is above), make sure our
> equipment is functioning correctly, and then take our places around the
> lake from there.
>
> Talk-in will be on the Plano (PARK) 2m repeater, 147.180+ PL/107.2.
>
> I will try to send out a notice no later than noon if the weather looks to
> be too ugly and we'll try to resked for some other time. Participants are
> welcome to send me an email and I'll reply with my cell phone number if
> you will be unable to check your email after noon. Or you can send me
> your cellphone and I can call or text you IF IT'S A NO-GO. Yer call.

>
> Let's have some fun! And don't forget, a 104" CB whip makes a dandy
> fishing pole! :-D Don't ferget yer fishin' license.
>
> -Rusty-
>

2104. Digital Tuesday (Plano-style) May 17th mtg -- RESCHEDULED!

Yahoo group: DAWG-HSMM
Date: 2011-05-04 06:30:36 UTC
From: Rusty Haddock
Topic: 2104 Message: 2104

Due to a conflict with the Wild Ride planning meeting on May 17th,
we have rescheduled the second Digital Tuesday meeting this month
to Wednesday May 18th, same Bat-Time, Same Bat-Channel.

Please mark your calendars!!!

[Kip, the PARK calendar will need adjusting as well.]

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
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2105. Re: [DAWG-HSMM] Digital Tuesday, Lake Lavon activity update

Yahoo group: DAWG-HSMM
Date: 2011-05-04 13:32:05 UTC
From: Rusty Haddock
Topic: 2101 Message: 2105

Todd Caldwell wrote:
>Wish I could make this one. Less than a week's warning was too little
>for me in this case. If it was announced earlier, I must have missed
>it. I'll be in Murphy while you guys are at the lake. I'll plug the
>node in the truck in, just in case. :)

We might hit it, ya never know.

>I'll make it up to Digital Tuesday one of these weeks.

See what ya missed, Todd? We discussed going to the lake at the last
meeting.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
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2106. Digital Tuesday, Lake Lavon activity reminder

Yahoo group: DAWG-HSMM
Date: 2011-05-07 08:49:48 UTC
From: Rusty Haddock
Topic: 2106 Message: 2106

Rusty Haddock wrote:
>As for the Lake Lavon outing: my plan is to get a group together and
>dispatch everyone to a different place around the (mostly) southern
>side of Lake Lavon. From there, probably have everyone elevated their
>WRT54G's in some way, even if it's a 10-ft piece of PVC or a 2x4. Heck,
>you'd be surprised how good of a ground plane your car roof provides. :)
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>an Echolink proxy or maybe even a Jabber server up and running so that
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Talk-in will be on the Plano (PARK) 2m repeater, 147.180+ PL/107.2.

I will try to send out a notice no later than noon if the weather looks to
be too ugly and we'll try to resked for some other time. Participants are
welcome to send me an email and I'll reply with my cell phone number if
you will be unable to check your email after noon. Or you can send me
your cellphone and I can call or text you IF IT'S A NO-GO. Yer call.

At this time, the forecast looks like we'll be clear to partly cloudy
with temp's in the low-to-mid 80's with winds to be around 10-15 MPH.
Windy but not too bad.

Let's have some fun! And don't forget, a 104" CB whip makes a dandy
fishing pole! :-D Don't ferget yer fishin' license.

-Rusty-

P.S. Here's the URL that should point to my Google Map for various locations.

http://goo.gl/maps/9Jj4

P.P.S. Can anyone go maritime mobile on the lake?

--
_____ Rusty Haddock <=> AE5AE
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```

2107. Swap Node to AP??

Yahoo group: DAWG-HSMM
Date: 2011-05-11 21:55:01 UTC
From: Kilgore
Topic: 2107 Message: 2107

I have MESH Node in a Rootenna. I have need to connect to an existing distant wireless network. Can you switch between MESH node and DD-WRT just by backing up one firmware configuration and loading the other? Later reverse the process to return to Node with all settings remaining the same?

What difficulties will I encounter?

Doug KD5OUG

2108. Re: [DAWG-HSMM] Swap Node to AP??

Yahoo group: DAWG-HSMM
Date: 2011-05-11 22:53:05 UTC
From: Glenn Currie
Topic: 2107 Message: 2108

Doug,

The HSMM-MESH firmware allows you to configure the the node as a normal AP. Choose that option on the setup page, set the SSID you want, and you have an 802.11 AP.

This was done because we sometimes want to be an AP for a time then go back to being a mesh node.

If you wish to load other firmware, you can load using the TFTP method. Users have put Linksys factory firmware back on a WRT54G, after loading HSMM-MESH firmware. See the "Problems and Answers" section on the Forums section of the hsmm-mesh.org web site.

To go back to HSMM-MESH firmware you can get back by loading the proper .bin file. If you can get by with just changing to the AP mode in HSMM-MESH firmware, it saves a lot of reloading. When done with AP mode, then set it back to a mesh node with an SSID of HSMM-MESH.

In the Problems & Answers section we covered changing firmware for people that were loading and trying a variety of 3rd party firmware loads.

-Glenn
KD5MFW

--- On Wed, 5/11/11, Kilgore <kilgore1317@...> wrote:

From: Kilgore <kilgore1317@...>
Subject: [DAWG-HSMM] Swap Node to AP??
To: "HSMM Group" <DAWG-HSMM@yahoogroups.com>
Date: Wednesday, May 11, 2011, 4:55 PM

I have MESH Node in a Rootenna. I have need to connect to an existing distant wireless network. Can you switch between MESH node and DD-WRT just by backing up one firmware configuration and loading the other? Later reverse the process to return to Node with all settings remaining the same?

What difficulties will I encounter?

Doug KD5OUG

2109. un-bricking a WRT54G family router

Yahoo group: DAWG-HSMM
Date: 2011-05-13 17:37:25 UTC
From: Mark J Culross
Topic: 2109 Message: 2109

All:

For those of us who are playing with the WRT-54G family of routers & turning them into mesh routers, the day might come (whether as a result of a local screw-up, or because we found a router for a VERY cheap price somewhere) when you realize that your router has just become an expensive paperweight . . . unfortunately, it's been "bricked".

As I searched the internet for instructions on how to un-brick routers for Tommy & Bill (they bought theirs already bricked . . . no extra charge !!), here's the website that I found to be most useful:

http://linksysinfo.org/forums/showthread.php?t=47259

"Revival tip #2" worked just fine for me using a WinXP machine, & I successfully loaded the hsmm-mesh-0.4.1-wrt54g.bin (into WRT-54G & WRT-54GL) & hsmm-mesh-0.4.1-wrt54gs (into WRT-54GS) directly from these instructions, without having to load any original linksys firmware.

One note of caution: after you load the firmware file using the "tftp" command, make sure & wait until the lights start to behave as described in the normal instructions for loading the mesh firmware (the power light stops blinking & the DMZ light goes out, etc.). This can take what seems like a very long time . . . don't be impatient or you'll brick your box again & you'll just have to repeat the instructions (don't ask me how I know this) !!

Good luck & if you have any questions and/or need any help, I'll be glad to try & answer what I can and/or help however I can.

Mark J Culross
KD5RXT

2110. Re: [DAWG-HSMM] un-bricking a WRT54G family router

Yahoo group: DAWG-HSMM
Date: 2011-05-13 18:34:34 UTC
From: Rusty Haddock
Topic: 2109 Message: 2110

Mark J Culross wrote:
>All:
>
>For those of us who are playing with the WRT-54G family of routers & turning
>them into mesh routers, the day might come (whether as a result of a local
>screw-up, or because we found a router for a VERY cheap price somewhere) when
>you realize that your router has just become an expensive paperweight . . .
>unfortunately, it's been "bricked".
>
>As I searched the internet for instructions on how to un-brick routers for Tommy
>& Bill (they bought theirs already bricked . . . no extra charge !!), here's the
>website that I found to be most useful:
>
>?? http://linksysinfo.org/forums/showthread.php?t=47259

The only thing that I'll say is that, to ME, the second(?) revival tip
is NOT to be trusted. Even though the website warns the reader that
not all FLASH memories used by Linksys were of the Intel variety, that
there were numerous makes of those chips used, and even minor variations
in the circuits boards. Shorting those pins can be quite hazardous to
your router, even worse shorting the wrong pins. I have a WRT54G v2.2
that is quite dead to, what I believe was, my attempt to short those
pins in order to revive my non-responding patient. If it were me, this
would screwdriver thingie be my last ditch effort before throwing the
unit out into the trash. Surely, there may be some people out there
that swear by this method -- I, for one, will swear AT it.

If the 'tftp' method doesn't work then probably THE BEST WAY is to
connect to the first internal serial port (the console) and deal with
the situation from the command line of the monitor/bootloader. It's not
necessarily quick or easy but safer than sticking a tiny screwdriver
between short circuit board traces. I know this doesn't work for version
1.x of the 54G line but... those models are not that prevalent.

Please note that if your router has the HSMM-MESH firmware installed,
there is a fail-safe mode that I've used with 100% success in recovering
"bricked" units as well as those whose root password had been forgotten.
The method is here:

http://hsmm-mesh.org/documentation/71-using-safe-mode-to-reset-a-forgotten-password.html

Again, this is ONLY for WRT54G,GL,and GS units that were last running
the HSMM-MESH version of the OpenWRT firmware.

-Rusty-
--

```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2111. Re: [DAWG-HSMM] un-bricking a WRT54G family router

Yahoo group: DAWG-HSMM
Date: 2011-05-13 20:42:31 UTC
From: Mark J Culross
Topic: 2109 Message: 2111

Rusty:

You've certainly been at this hsmm-mesh stuff alot longer than I have, so I'll defer to the breadth of your experience !!

However, before resorting to the method that I reported using successfully, I did reference the HSMM resource article that you pointed out. Unfortunately, neither of the units that I recovered gave any indications that they had been loaded with mesh firmware (one unit "seemed" to have an active LAN, but it was not providing DHCP addresses, it did not answer any pings in the traditional mesh IP space on the LAN side, & it did not accept a DHCP address on its WAN side . . . the other unit didn't even run, it just lit all LEDs in a purely random pattern . . . this second unit seemed to be running "something" that was almost certainly NOT WRT54Gx firmware !!).

I also found another resource (http://www.thenorth.com/apblog4.nsf/0/668D65A56B02BB4B852570A400535F16) that described a very similar recovery procedure using the reset button. Again, unfortunately, this approach had no effect on the first unit (& of course, since the second unit was "dead", it also had no effect on this unit).

Bottom line, you make a very good point that should be well heeded: one should certainly try all other less dangerous recovery procedures before resorting to the "shorting pins" method, which can definitely have bad side effects, maybe even router death (like the one you have ??). In the case of the two units that I recovered, both of them used Intel FLASH chips, so I got very lucky. I had planned to look up the Intel FLASH chip (as shown in the procedure) as well as any other non-Intel FLASH chips (that were inside the dead units) to identify exactly what the function is of the pins that are called out for shorting, & then to short out the appropriate pins on the non-Intel FLASH if needed. Again, luckily, I did not need to do anything different from what was described in the reference procedure, & this may completely be the reason why now we have two live routers instead of two dead ones.

As a side note, if you still have it, bring your "dead" router to one of the Digital Tuesday get-togethers . . . it might be fun to poke around in it (I can't make the 18th meeting . . . that's my older son's b-day & the family is going out to dinner, but maybe someone else might like to stick their fingers in it) !!

And finally, thanks again for the wise warnings !! I wouldn't want to be responsible for helping anyone to kill their WRT54Gx completely dead . . . that would violate my normal guarantee which is "I won't make your device any worse than it was when you gave it to me to work on" !!

Mark J Culross
KD5RXT

From: Rusty Haddock <rusty@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Fri, May 13, 2011 1:34:34 PM
Subject: Re: [DAWG-HSMM] un-bricking a WRT54G family router

Mark J Culross wrote:
>All:
>
>For those of us who are playing with the WRT-54G family of routers & turning
>them into mesh routers, the day might come (whether as a result of a local
>screw-up, or because we found a router for a VERY cheap price somewhere) when
>you realize that your router has just become an expensive paperweight . . .
>unfortunately, it's been "bricked".
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>As I searched the internet for instructions on how to un-brick routers for Tommy
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>website that I found to be most useful:
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> http://linksysinfo.org/forums/showthread.php?t=47259

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is NOT to be trusted. Even though the website warns the reader that
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your router, even worse shorting the wrong pins. I have a WRT54G v2.2
that is quite dead to, what I believe was, my attempt to short those
pins in order to revive my non-responding patient. If it were me, this
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that swear by this method -- I, for one, will swear AT it.

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there is a fail-safe mode that I've used with 100% success in recovering
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The method is here:

http://hsmm-mesh.org/documentation/71-using-safe-mode-to-reset-a-forgotten-password.html

Again, this is ONLY for WRT54G,GL,and GS units that were last running
the HSMM-MESH version of the OpenWRT firmware.

```
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2112. Re: Digital Tuesday (Plano-style) May 17th mtg -- RESCHEDULED!

Yahoo group: DAWG-HSMM
Date: 2011-05-16 07:05:58 UTC
From: Rusty Haddock
Topic: 2104 Message: 2112

Just a reminder...

Due to a conflict with the Wild Ride planning meeting on May 17th,
we have rescheduled the second Digital Tuesday meeting this month
to Wednesday May 18th, same Bat-Time, Same Bat-Channel.

Please mark your calendars!!!

--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2113. Re: [DAWG-HSMM] Re: Digital Tuesday (Plano-style) May 17th mtg -- RESCHEDULED!

Yahoo group: DAWG-HSMM
Date: 2011-05-17 16:07:21 UTC
From: Kipton Moravec
Topic: 2104 Message: 2113

Yet another reminder.

Digital Tuesday will be WEDNESDAY this week only. Not tonight.

Kip

On Mon, 2011-05-16 at 02:05 -0500, Rusty Haddock wrote:
> Just a reminder...
>
> Due to a conflict with the Wild Ride planning meeting on May 17th,
> we have rescheduled the second Digital Tuesday meeting this month
> to Wednesday May 18th, same Bat-Time, Same Bat-Channel.
>
> Please mark your calendars!!!
>

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2114. Fw: [RACES] Cyber Volunteer Reception Center Exercise - Assistance Needed

Yahoo group: DAWG-HSMM
Date: 2011-05-18 03:18:27 UTC
From: Douglas Kilgore
Topic: 2114 Message: 2114

See what others are doing....
Doug

--- On Tue, 5/17/11, Chris Floyd <Floydchris@...> wrote:

> From: Chris Floyd <Floydchris@...>
> Subject: [RACES] Cyber Volunteer Reception Center Exercise - Assistance Needed
> To: RACES@yahoogroups.com
> Date: Tuesday, May 17, 2011, 5:01 PM
>
> Please Share This Important Disaster Exercise Opportunity
> With Others
>
>
>
> Operation Volunteer Placement
>
> A Cyber VRC Tabletop Exercise
>
>
>
> May 25 2011
>
>
>
> Volunteer Leon, North Florida's Hands on Network affiliate,
> will be
> assessing the capability of its internet based Volunteer
> Reception Center
> (VRC) via the Operation Volunteer Placement (OVP) Tabletop
> Exercise on May
> 25 2011.
>
>
>
> This exercise will serve as Volunteer Leon's opportunity to
> load test its
> internet based VRC system's ability to match hundreds of
> spontaneous
> volunteers with community and faith based organizations
> requesting manpower
> within a very short period of time.
>
>

>
> To ensure that the system is thoroughly tested Volunteer
> Leon is asking for
> your assistance in playing the role of a simulated
> Spontaneous Volunteer via
> an on-line disaster exercise system.
>
>
>
> The OVP exercise will be facilitated via the ONX System
> which will allow you
> to participate as a simulated spontaneous volunteer from
> the comfort of your
> office.
>
>
>
> This can also serve as an opportunity for you to observe
> first-hand how a
> Virtual VRC works.
>
>
>
> So please access the following web site today for
> additional information and
> to register:
>
>
>
> www.drc-group.com/project/ovp.html
>
>
>
> Anyone can register to participate in the exercise as a
> Simulated
> Spontaneous Volunteer.
>
>
>
>
> Please Share This Important Disaster Exercise Opportunity
> With Others
>
>
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>
>
>
>
>

>
>
>
> [Non-text portions of this message have been removed]
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>   RACES-fullfeatured@yahoogroups.com
>
>
>

2115. HSMM-MESH Nodes

Yahoo group: DAWG-HSMM
Date: 2011-05-18 04:53:58 UTC
From: Kipton Moravec
Topic: 2115 Message: 2115

I am building a HSMM-MESH Node Map for HAMCOM and to let people know what is where.

http://goo.gl/maps/3Mua

If you have a HSMM-MESH node up 24/7 let me know so I can add you to the map.

I need:
Node Name:
Street Address:
City:
Height above Ground Level:
Antenna Type
Antenna Gain
If directional antenna where it is pointed.

Thanks,
Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2116. RE: [DAWG-HSMM] HSMM-MESH Nodes

Yahoo group: DAWG-HSMM
Date: 2011-05-18 15:03:05 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2115 Message: 2116

Kip,

Do any of these nodes mesh among themselves over the air?

I notice some of the distances are more than a few hundred feet.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Kipton Moravec
Sent: Wednesday, May 18, 2011 4:54 AM
To: DAWG-HSMM
Subject: [DAWG-HSMM] HSMM-MESH Nodes

I am building a HSMM-MESH Node Map for HAMCOM and to let people know what is where.

http://goo.gl/maps/3Mua

If you have a HSMM-MESH node up 24/7 let me know so I can add you to the map.

I need:
Node Name:
Street Address:
City:
Height above Ground Level:
Antenna Type
Antenna Gain
If directional antenna where it is pointed.

Thanks,
Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

_____ Information from ESET Smart Security, version of virus signature database 6130 (20110517) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 6132 (20110518) _____

The message was checked by ESET Smart Security.

http://www.eset.com

2117. Fw: [Hamvention] Live Webcam from the Dayton Crowne Plaza - starts tonight

Yahoo group: DAWG-HSMM
Date: 2011-05-18 17:51:46 UTC
From: Patrick Soileau ND5C
Topic: 2117 Message: 2117

From: Tim Duffy K3LR <k3lr@...>
Subject: [Hamvention] Live Webcam from the Dayton Crowne Plaza - starts tonight
To: hamvention@...m
Date: Wednesday, May 18, 2011, 10:57 AM

Thanks to the very hard work of Ben, AK2X and awesome support from Icom America - North Coast Contesters are proud to host the Dayton Contest Cam - live from the Contest hotel in downtown Dayton - the
Crowne Plaza.

Live CAMming will start this evening and continue through Saturday night.
The CAM has an interactive text chat - so you can text the folks that you
see on the CAM and they can "talk" (there is audio on the CAM) back to you.
We expect guys will come up to the CAM and tell you about what is going on
at the Super Suite each night, CTU tomorrow, maybe the TopBand Dinner on
Friday night and we'll try and cover the Contest Dinner on Saturday night.
We'll move the CAM around to give you a feel of what is going on here. Hope
to do some interviews of guys here.

This is our first time trying this out, so it might be a little clunky,
please bear with us.

You can reach the CAM by going to anyone of the four Contesting website
front pages and clicking on the CLICK TO WATCH LIVE DAYTON CONTEST CAM.

http://contestsupersuite.com

http://contestdinner.com

http://contestuniversity.com

http://topbanddinner.com

We hope this new CAM helps bring some of the Dayton Contest experience to
all of those that cannot be here this weekend.

Very 73,
Tim K3LR

2118. Fw: [Hamvention] FDIM Internet Streaming Information

Yahoo group: DAWG-HSMM
Date: 2011-05-18 17:52:27 UTC
From: Patrick Soileau ND5C
Topic: 2118 Message: 2118

--- On Wed, 5/18/11, Steve, G4GXL <steve.g4gxl@...> wrote:

From: Steve, G4GXL <steve.g4gxl@...>
Subject: [Hamvention] FDIM Internet Streaming Information
To: "Elecraft Reflector" <elecraft@...>, pQRP@yahoogroups.com, hamvention@yahoogroups.com
Date: Wednesday, May 18, 2011, 10:14 AM

Once again the 'Four Days In May' (FDIM) convention at Dayton will be streamed
over the internet for those unable to attend.

To watch the stream go to - www.qrparci.org/fdimstream

Anything you see before 8am EDT on Thursday is likely to be a test
(possibly showing seminars from FDIM 2010 including the Elecraft Q&A Session).

It's not just QRP, the DSP seminar should be of interest to SDR users
and our keynote speaker is Nobel Prize winning physicist Joe Taylor
K1JT (of JTxx mode and WSPR fame).

Here is a schedule of some of the main events (note all times are EDT,
add 5 hours if in the UK) -

Thursday 19th May 2011

08:25 FDIM Opening Address

08:30 Dave Cripe, NM0S
The Plumbing Defined Radio

09:30 Jim Everly, K8IKE
Jay Slough, K4ZLE
Another Look at Crystal Radio

10:45 George Dobbs, G3RJV
In My Workshop

13:00 Joe Taylor, K1JT
Weak Signal Communication

14:00 Ward Harriman, AE6TY
Intro to DSP (without the math)

15:00 Chris Howard, WA4YG
QRP Kit Building For Youth

Friday 19th May 2011

19:00 George Heron, N2APB
SDR-Cube Transceiver

21:30 Rex Harper, W1REX
Build-along
The World's first Buildathon
to be streamed over the internet

Saturday 19th May 2011

19:00 Gala Banquet
Award announcements expected
around 20:00

Other Activities

We may stream a fly-on-the-wall view of other activities on Wednesday
- Friday evenings.

73
Steve, G4GXL
--
QRP ARCI Webmaster and Board Member - www.qrparci.org
MyAPRS Map - www.g4gxl.com/aprs (Kings Lynn, Norkolk)
Twitter - www.twitter.com/g4gxl
Member: QRP ARCI, G-QRP, TAPR, ARRL, BATC, UK Microwave Group

2119. RE: [DAWG-HSMM] HSMM-MESH Nodes

Yahoo group: DAWG-HSMM
Date: 2011-05-18 18:55:22 UTC
From: Kipton Moravec
Topic: 2115 Message: 2119

Not yet. But we are working on it. We need more nodes.

Kip

On Wed, 2011-05-18 at 15:03 +0000, J.Gordon Beattie, Jr., W2TTT wrote:
>
>
> Kip,
>
> Do any of these nodes mesh among themselves over the air?
>
> I notice some of the distances are more than a few hundred feet.
>
>
>
> Thanks & 73,
>
> Gordon Beattie, W2TTT
>
> 201.314.6964
>
>
>
> _____
> From:DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On
> Behalf Of Kipton Moravec
> Sent: Wednesday, May 18, 2011 4:54 AM
> To: DAWG-HSMM
> Subject: [DAWG-HSMM] HSMM-MESH Nodes
>
>
>
>
>
>
> I am building a HSMM-MESH Node Map for HAMCOM and to let people know
> what is where.
>
> http://goo.gl/maps/3Mua
>
> If you have a HSMM-MESH node up 24/7 let me know so I can add you to
> the
> map.
>
> I need:

> Node Name:
> Street Address:
> City:
> Height above Ground Level:
> Antenna Type
> Antenna Gain
> If directional antenna where it is pointed.
>
> Thanks,
> Kip
>
> --
> Kipton Moravec AE5IB .- . ... -...
>
> "Always do right; this will gratify some people and astonish the
> rest."
> --Mark Twain
>
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>
> _____ Information from ESET Smart Security, version of virus
> signature database 6130 (20110517) _____
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>
> The message was checked by ESET Smart Security.
>
>
> http://www.eset.com
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> signature database 6132 (20110518) _____
>
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>
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> http://www.eset.com
>

--
Kipton Moravec AE5IB .- . ... -...

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--Mark Twain

2120. Re: [DAWG-HSMM] HSMM-MESH Nodes

Yahoo group: DAWG-HSMM
Date: 2011-05-18 19:33:45 UTC
From: Floyd Rodgers
Topic: 2115 Message: 2120

What is the normal max spacing without directional antennas? Is there a chart on distance versus antenna gain and power level?

2121. Re: [DAWG-HSMM] Digest Number 702

Yahoo group: DAWG-HSMM
Date: 2011-05-19 21:05:29 UTC
From: Brian
Topic: 2121 Message: 2121

```
>
> I am building a HSMM-MESH Node Map for HAMCOM and to let people know
> what is where.
>
> http://goo.gl/maps/3Mua
```

```
I am halfway between W5ROK-13 and WJ5J as the crow flies.
Realistically, what are the chances of me seeing either station, and
how high would I have to be? Would it be possible with a directional
antenna pointed in either direction?
```

2122. Re: [DAWG-HSMM] Digest Number 702

Yahoo group: DAWG-HSMM
Date: 2011-05-19 21:33:40 UTC
From: Kipton Moravec
Topic: 2121 Message: 2122

I do not know where exactly you are. Give me an address.

Kip

On Thu, 2011-05-19 at 16:05 -0500, Brian wrote:
> >
> > I am building a HSMM-MESH Node Map for HAMCOM and to let people know
> > what is where.
> >
> > http://goo.gl/maps/3Mua
>
> I am halfway between W5ROK-13 and WJ5J as the crow flies.
> Realistically, what are the chances of me seeing either station, and
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> antenna pointed in either direction?
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

--
Kipton Moravec AE5IB .- . ... -...

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--Mark Twain

2123. Re: Digest Number 702

Yahoo group: DAWG-HSMM
Date: 2011-05-19 21:53:38 UTC
From: wa3ite
Topic: 2121 Message: 2123

Close to the intersection of SH66 and Centerville in Garland.

--- In DAWG-HSMM@yahoogroups.com, Kipton Moravec <kip@...> wrote:
>
> I do not know where exactly you are. Give me an address.
>
> Kip
>
>
> On Thu, 2011-05-19 at 16:05 -0500, Brian wrote:
> > >
> > > I am building a HSMM-MESH Node Map for HAMCOM and to let people know
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> > >
> > > http://goo.gl/maps/3Mua
> >
> > I am halfway between W5ROK-13 and WJ5J as the crow flies.
> > Realistically, what are the chances of me seeing either station, and
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> > antenna pointed in either direction?
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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>
>
> --
> Kipton Moravec AE5IB .- . ... -...
>
> "Always do right; this will gratify some people and astonish the rest."
> --Mark Twain
>

2124. Re: [DAWG-HSMM] Re: Digest Number 702

Yahoo group: DAWG-HSMM
Date: 2011-05-19 22:27:44 UTC
From: Kipton Moravec
Topic: 2121 Message: 2124

can you see the Mesquite tower from your roof?

If you can see it you can hit it.

Kip

On Thu, 2011-05-19 at 21:53 +0000, wa3ite wrote:
> Close to the intersection of SH66 and Centerville in Garland.
>
> --- In DAWG-HSMM@yahoogroups.com, Kipton Moravec <kip@...> wrote:
> >
> > I do not know where exactly you are. Give me an address.
> >
> > Kip
> >
> >
> > On Thu, 2011-05-19 at 16:05 -0500, Brian wrote:
> > > >
> > > > I am building a HSMM-MESH Node Map for HAMCOM and to let people know
> > > > what is where.
> > > >
> > > > http://goo.gl/maps/3Mua
> > >
> > > I am halfway between W5ROK-13 and WJ5J as the crow flies.
> > > Realistically, what are the chances of me seeing either station, and
> > > how high would I have to be? Would it be possible with a directional
> > > antenna pointed in either direction?
> > >
> > >
> > > ------------------------------------
> > >
> > > Yahoo! Groups Links
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> >
> > --
> > Kipton Moravec AE5IB .- . ... -...
> >
> > "Always do right; this will gratify some people and astonish the rest."
> > --Mark Twain
> >
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> ------------------------------------
>
> Yahoo! Groups Links
>
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>

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2125. Part 15 or Part 97 operation of HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2011-05-20 03:14:47 UTC
From: kc4uai
Topic: 2125 Message: 2125

I have what amounts to a legal question...

It is my understanding that as long as you use the manufacturer's antennas and don't add power amps that HSMM-MESH nodes are really just part 15 devices like the stock routers with stock firmware. As such, you don't need a ham ticket to flash your router and put up a mesh node any place you want.

However, if you connect different antennas (like one with more gain)and/or add an amplifier for more power then it legally requires a ham ticket to operate the node as a part 97 device and that will require we only pass allowed traffic (like it not being encrypted). Given the nature of a MESH node, we may end up with a mixture of part 15 and part 97 devices working together to carry data packets on our mesh networks.

Is this a problem?

I'm a bit concerned that it may become one. Certainly if the mesh starts to provide internet connectivity in places, it will be pretty easy for the guy next door to me to flash a router and hop on the mesh with his totally legal part 15 device to get internet access. By using his part 15 device he can cause some part 97 device to carry traffic that is illegal (such as visiting a web site using the https protocol to check his bank balance).

What do you guys think?

-= bob (kc4uai) =-

2126. Re: [DAWG-HSMM] Re: Digest Number 702

Yahoo group: DAWG-HSMM
Date: 2011-05-20 03:39:44 UTC
From: Bob Diepenbrock
Topic: 2121 Message: 2126

Kip,

Is the Mesquite tower shown on the google map?

I imagine that we can likely see it from W5ROK if I knew what direction to point the patch antenna towards.

Also, do you know if AE5IB-AP3 can see the tower too?
-= Bob =-
On Thu, May 19, 2011 at 5:27 PM, Kipton Moravec <kip@...> wrote:

>
>
> can you see the Mesquite tower from your roof?
>
> If you can see it you can hit it.
>
> Kip
>
>
> On Thu, 2011-05-19 at 21:53 +0000, wa3ite wrote:
> > Close to the intersection of SH66 and Centerville in Garland.
> >
> > --- In DAWG-HSMM@yahoogroups.com, Kipton Moravec <kip@...> wrote:
> > >
> > > I do not know where exactly you are. Give me an address.
> > >
> > > Kip
> > >
> > >
> > > On Thu, 2011-05-19 at 16:05 -0500, Brian wrote:
> > > > >
> > > > > I am building a HSMM-MESH Node Map for HAMCOM and to let people
> know
> > > > > what is where.
> > > > >
> > > > > http://goo.gl/maps/3Mua
> > > >
> > > > I am halfway between W5ROK-13 and WJ5J as the crow flies.
> > > > Realistically, what are the chances of me seeing either station, and
> > > > how high would I have to be? Would it be possible with a directional
> > > > antenna pointed in either direction?
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> > > > Yahoo! Groups Links
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> > > Kipton Moravec AE5IB .- . ... -...
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> > > "Always do right; this will gratify some people and astonish the rest."
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> Kipton Moravec AE5IB .- . ... -...
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> --Mark Twain
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>

2127. Re: [DAWG-HSMM] Re: Digest Number 702

Yahoo group: DAWG-HSMM
Date: 2011-05-20 03:45:33 UTC
From: Todd Caldwell
Topic: 2121 Message: 2127

WJ5J-A is the node on the tower.

WJ5J-EPC is up in a church steeple just west of 635.

73's

Todd - K5SLR

Bob Diepenbrock wrote:
> <!-- /* start of attachment style */ .ygrp-photo-title{ clear: both;
> font-size: smaller; height: 15px; overflow: hidden; text-align:
> center; width: 75px; } div.ygrp-photo{ background-position: center;
> background-repeat: no-repeat; background-color: white; border: 1px
> solid black; height: 62px; width: 62px; } div.photo-title a,
> div.photo-title a:active, div.photo-title a:hover, div.photo-title
> a:visited { text-decoration: none; } div.attach-table div.attach-row {
> clear: both; } div.attach-table div.attach-row div { float: left; /*
> margin: 2px;*/ } p { clear: both; padding: 15px 0 3px 0; overflow:
> hidden; } div.ygrp-file { width: 30px; valign: middle; }
> div.attach-table div.attach-row div div a { text-decoration: none; }
> div.attach-table div.attach-row div div span { font-weight: normal; }
> div.ygrp-file-title { font-weight: bold; } /* end of attachment style
> */ --> <!-- #ygrp-mkp { border: 1px solid #d8d8d8; font-family: Arial;
> margin: 10px 0; padding: 0 10px; } #ygrp-mkp hr { border: 1px solid
> #d8d8d8; } #ygrp-mkp #hd { color: #628c2a; font-size: 85%;
> font-weight: 700; line-height: 122%; margin: 10px 0; } #ygrp-mkp #ads
> { margin-bottom: 10px; } #ygrp-mkp .ad { padding: 0 0; } #ygrp-mkp .ad
> p { margin: 0; } #ygrp-mkp .ad a { color: #0000ff; text-decoration:
> none; } -->
>
> Kip,
> Is the Mesquite tower shown on the google map?
> I imagine that we can likely see it from W5ROK if I knew what
> direction to point the patch antenna towards.
> Also, do you know if AE5IB-AP3 can see the tower too?
> -= Bob =-
> On Thu, May 19, 2011 at 5:27 PM, Kipton Moravec <kip@...
> <mailto:kip@...>> wrote:
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> If you can see it you can hit it.
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> On Thu, 2011-05-19 at 21:53 +0000, wa3ite wrote:
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> <mailto:DAWG-HSMM%40yahoogroups.com>, Kipton Moravec <kip@...> wrote:
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> > > I do not know where exactly you are. Give me an address.
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> > > On Thu, 2011-05-19 at 16:05 -0500, Brian wrote:
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> > > > > I am building a HSMM-MESH Node Map for HAMCOM and to let
> people know
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> > > > > http://goo.gl/maps/3Mua
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> > > > I am halfway between W5ROK-13 and WJ5J as the crow flies.
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> rest."
> --Mark Twain
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2128. Re: [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2011-05-20 05:12:28 UTC
From: KJ6KO
Topic: 2125 Message: 2128

...In which case you lock the router as a private network. There are also some rules regarding bandwidth used with HAM stuff that you may want to look into. As long as it is amateur only traffic, I don't see any issues.
----- Original Message -----
From: kc4uai
To: DAWG-HSMM@yahoogroups.com
Sent: Thursday, May 19, 2011 8:14 PM
Subject: [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes

I have what amounts to a legal question...

It is my understanding that as long as you use the manufacturer's antennas and don't add power amps that HSMM-MESH nodes are really just part 15 devices like the stock routers with stock firmware. As such, you don't need a ham ticket to flash your router and put up a mesh node any place you want.

However, if you connect different antennas (like one with more gain)and/or add an amplifier for more power then it legally requires a ham ticket to operate the node as a part 97 device and that will require we only pass allowed traffic (like it not being encrypted). Given the nature of a MESH node, we may end up with a mixture of part 15 and part 97 devices working together to carry data packets on our mesh networks.

Is this a problem?

I'm a bit concerned that it may become one. Certainly if the mesh starts to provide internet connectivity in places, it will be pretty easy for the guy next door to me to flash a router and hop on the mesh with his totally legal part 15 device to get internet access. By using his part 15 device he can cause some part 97 device to carry traffic that is illegal (such as visiting a web site using the https protocol to check his bank balance).

What do you guys think?

-= bob (kc4uai) =-

_____ Information from ESET NOD32 Antivirus, version of virus signature database 6136 (20110519) _____

The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

_____ Information from ESET NOD32 Antivirus, version of virus signature database 6136 (20110519) _____

The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

2129. Re: [DAWG-HSMM] Re: Digest Number 702

Yahoo group: DAWG-HSMM
Date: 2011-05-20 12:02:03 UTC
From: Kipton Moravec
Topic: 2121 Message: 2129

I have not tried to hit the tower from AE5IB-AP3 because I do not have the height to get over the trees yet.

Wednesday I gave the guys at Collins Radio a 24 db antenna to see if they can hit it. It is 16 miles and I will bet they can. They have a roof top that is above the tree line.

Kip

On Thu, 2011-05-19 at 22:39 -0500, Bob Diepenbrock wrote:
>
>
> Kip,
>
> Is the Mesquite tower shown on the google map?
>
> I imagine that we can likely see it from W5ROK if I knew what
> direction to point the patch antenna towards.
>
> Also, do you know if AE5IB-AP3 can see the tower too?
>
> -= Bob =-
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> On Thu, May 19, 2011 at 5:27 PM, Kipton Moravec <kip@...>
> wrote:
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> can you see the Mesquite tower from your roof?
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> wrote:
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> > > I do not know where exactly you are. Give me an address.
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> > > > > http://goo.gl/maps/3Mua
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> > > > I am halfway between W5ROK-13 and WJ5J as the crow
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Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2130. RE: [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2011-05-20 12:04:03 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2125 Message: 2130

Bob,

It is important to maintain security such that non-licensed operation not be mixed with licensed operation.

Commercial content limitations apply to the Amateur Radio Service as well. I don't run a mesh node yet, but I do have a high power node with a gain antenna that has a cell uplink which I use for EMCOM purposes. It is secure and I give the SSID out to those who need it.

One other point is that you need to make sure that you stay on the channels that are entirely within the Amateur portion of the band: channels 1-5.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of kc4uai
Sent: Friday, May 20, 2011 3:15 AM
To: DAWG-HSMM@yahoogroups.com
Subject: [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes

I have what amounts to a legal question...

It is my understanding that as long as you use the manufacturer's antennas and don't add power amps that HSMM-MESH nodes are really just part 15 devices like the stock routers with stock firmware. As such, you don't need a ham ticket to flash your router and put up a mesh node any place you want.

However, if you connect different antennas (like one with more gain)and/or add an amplifier for more power then it legally requires a ham ticket to operate the node as a part 97 device and that will require we only pass allowed traffic (like it not being encrypted). Given the nature of a MESH node, we may end up with a mixture of part 15 and part 97 devices working together to carry data packets on our mesh networks.

Is this a problem?

I'm a bit concerned that it may become one. Certainly if the mesh starts to provide internet connectivity in places, it will be pretty easy for the guy next door to me to flash a router and hop on the mesh with his totally legal part 15 device to get internet access. By using his part 15 device he can cause some part 97 device to carry traffic that is illegal (such as visiting

a web site using the https protocol to check his bank balance).

What do you guys think?

-= bob (kc4uai) =

_____ Information from ESET Smart Security, version of virus signature database 6136 (20110519) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 6137 (20110520) _____

The message was checked by ESET Smart Security.

http://www.eset.com

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The message was checked by ESET Smart Security.

http://www.eset.com

2131. Re: [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2011-05-20 12:44:06 UTC
From: James Hall
Topic: 2125 Message: 2131

It's my understanding that you can push some gear into channel 0 or -1..
basically out of the normal part 15 channel assignment but still within the
ham allocation.

On Fri, May 20, 2011 at 8:04 AM, J.Gordon Beattie, Jr., W2TTT <w2ttt@...
> wrote:

>
>
> Bob,
>
> It is important to maintain security such that non-licensed operation not
> be mixed with licensed operation.
>
> Commercial content limitations apply to the Amateur Radio Service as well.
> I don’t run a mesh node yet, but I do have a high power node with a gain
> antenna that has a cell uplink which I use for EMCOM purposes. It is secure
> and I give the SSID out to those who need it.
>
> One other point is that you need to make sure that you stay on the channels
> that are entirely within the Amateur portion of the band: channels 1-5.
>
>
>
> *Thanks & 73,*
>
> *Gordon Beattie, W2TTT*
>
> *201.314.6964***
> ----------
>
> *From:* DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] *On
> Behalf Of *kc4uai
> *Sent:* Friday, May 20, 2011 3:15 AM
>
> *To:* DAWG-HSMM@yahoogroups.com
> *Subject:* [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes
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> I have what amounts to a legal question...
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> It is my understanding that as long as you use the manufacturer's antennas
> and don't add power amps that HSMM-MESH nodes are really just part 15
> devices like the stock routers with stock firmware. As such, you don't need
> a ham ticket to flash your router and put up a mesh node any place you want.
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> However, if you connect different antennas (like one with more gain)and/or
> add an amplifier for more power then it legally requires a ham ticket to
> operate the node as a part 97 device and that will require we only pass
> allowed traffic (like it not being encrypted). Given the nature of a MESH
> node, we may end up with a mixture of part 15 and part 97 devices working
> together to carry data packets on our mesh networks.
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> Is this a problem?
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> I'm a bit concerned that it may become one. Certainly if the mesh starts to
> provide internet connectivity in places, it will be pretty easy for the guy
> next door to me to flash a router and hop on the mesh with his totally legal
> part 15 device to get internet access. By using his part 15 device he can
> cause some part 97 device to carry traffic that is illegal (such as visiting
> a web site using the https protocol to check his bank balance).
>
> What do you guys think?
>
> -= bob (kc4uai) =
>
>
> _____ Information from ESET Smart Security, version of virus signature
> database 6136 (20110519) _____
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> The message was checked by ESET Smart Security.
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> http://www.eset.com
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2132. Re: [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2011-05-20 15:08:53 UTC
From: Bob Diepenbrock
Topic: 2125 Message: 2132

Gordon (and others),

What you say squares with my understanding. The problem I see is that there is no way I can control the unlicensed guy next door. He can take his router, flash it with the HSMM-MESH firmware and my node will talk with his. If there is an Internet gateway on the MESH then he can use it and I have no way (short of turning my node off) of controlling this. The OLSR daemon will be happy to add this node to the mesh just like any other node. We need some way to know that the data my nodes are transferring is really from a ham. (See Part 97.115 c)

I was looking at the OLSR website and I found a paper that describes "Secure" OLSR. Basically this method uses signature keys to validate the various packets that OLSR uses to make the MESH work. I'd feel a lot better if the HSMM-MESH allowed for some kind of security to be established for the mesh network. Either let me filter the nodes I will allow my node to talk with or offer some way to validate that they are really a ham before my node will allow them into the mesh.

This leads me to a follow up question. Part 97.113 prohibits the use of codes or ciphers to obscure the meaning of a transmission. Does this mean that I am not allowed to use my mesh node to access an encrypted (i.e. HTTPS) web site?

-= bob =-
On Fri, May 20, 2011 at 7:04 AM, J.Gordon Beattie, Jr., W2TTT <w2ttt@...
> wrote:

>
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> Bob,
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> It is important to maintain security such that non-licensed operation not
> be mixed with licensed operation.
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> I don’t run a mesh node yet, but I do have a high power node with a gain
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> that are entirely within the Amateur portion of the band: channels 1-5.
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> *Thanks & 73,*

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> *Gordon Beattie, W2TTT*
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> *201.314.6964***
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> *From:* DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] *On
> Behalf Of *kc4uai
> *Sent:* Friday, May 20, 2011 3:15 AM
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> *To:* DAWG-HSMM@yahoogroups.com
> *Subject:* [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes
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> However, if you connect different antennas (like one with more gain)and/or
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2133. Re: [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2011-05-23 22:19:49 UTC
From: Rusty Haddock
Topic: 2125 Message: 2133

Bob Diepenbrock wrote:
>Gordon (and others),
>
>What you say squares with my understanding. The problem I see is that there
>is no way I can control the unlicensed guy next door. He can take his

You control your stuff, less the guy next door worry about his. :-)

>router, flash it with the HSMM-MESH firmware and my node will talk with
>his. If there is an Internet gateway on the MESH then he can use it and I
>have no way (short of turning my node off) of controlling this. The OLSR

Tsk tsk tsk. Ever the pessimist! :-)

>daemon will be happy to add this node to the mesh just like any other node.
>We need some way to know that the data my nodes are transferring is really
>from a ham. (See Part 97.115 c)
>
>I was looking at the OLSR website and I found a paper that describes
>"Secure" OLSR. Basically this method uses signature keys to validate the
>various packets that OLSR uses to make the MESH work. I'd feel a lot better
>if the HSMM-MESH allowed for some kind of security to be established for the
>mesh network. Either let me filter the nodes I will allow my node to talk
>with or offer some way to validate that they are really a ham before my node
>will allow them into the mesh.

Bob, please feel better then! The HSMM-MESH firmware does use the
described signature keys by virtue of the secure plugin for the
OLSR software. This will allow you to control what nodes connect to
your mesh. All you have to do is simply change the key in the file
"/etc/olsrd.key" on each of your routers. The contents of such contains
a 32-byte hexadecimal number that can be changed. After than the file
will need to be copied to your other nodes. I'll leave the process of
changing all the nodes in a mesh up to the reader but just remember to
paint the flagpole starting at the TOP, not the bottom! Think about it.

There is one issue with this though... if you take any of your nodes,
on which you've changed the key, mobiling around then you will not
connect to other meshes (meshi?) unless you install the proper key or
you switch your key file back to its original contents.

Another solution is simply to encrypt your mesh. I'm using WEP on
mine. Not the most secure encryption but it tends to keep the general
population off my mesh although my neighbors know better (save one or
two of their kids). I haven't tried using WPA2 yet but it should work
as well. WPA will not, though.

And the same thing applies as if you changed the OLSR key and want to go mobiling around with one or more of your encrypted nodes.

Keep in mind two more things:

1 -- it doesn't take too much to break a WEP key. If you want "real" security, what's it doing on the ham bands? Still, I understand what you're wanting.

2 -- changing the OLSR key doesn't keep me from using my laptop (without OLSR) to "connect" to your ad-hoc mesh and use your internet gateway although I do have to figure out one or two things about your mesh. With a packet sniffer, and knowng what the heck I'm doing, I can figure out those things fairly quickly. Naturally, this is AFTER I crack your mesh's encryption but that's against the law too, I believe. :-)

(OK, maybe three things)

3 -- I haven't experimented with it yet but limiting your mesh to certain Ethernet MAC addresses may be possible. Still, changing the MAC address used by a node is a trivally easy thing to do so spoofing such is easy too.

>This leads me to a follow up question. Part 97.113 prohibits the use of
>codes or ciphers to obscure the meaning of a transmission. Does this mean
>that I am not allowed to use my mesh node to access an encrypted (i.e.
>HTTPS) web site?

Technically (but IANAL) I believe it does since that's what HTTPS is intented to do -- obscure the message. Practically, and quite frankly, I seriously doubt that the Friendly Cookie Company will give a rat's behind about it unless they (or some other law enforcement agency) catch you breaking other law(s). That's just my opinion, humble or not.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2134. having each mesh node generate its OLSR map in a webpage

Yahoo group: DAWG-HSMM
Date: 2011-05-24 15:53:32 UTC
From: Mark J Culross
Topic: 2125 Message: 2134

We are in the process of preparing our mesh network capability that we intend to use at our Field Day site in a couple of weeks. As part of these preparations, I have connected my RedHat Enterprise Linux 5.x laptop to the mesh & done some playing in that arena. I successfully installed all of the packages (including ImageMagick & graphviz) to allow the laptop to display OLSR maps . . . after some stumbling & bumbling (purely ignorance of these packages on my part) works as advertised (what else did we expect !?!).

Now for the question: it is almost certain that most of the "clients" on our mesh will be Windows machines. Since the OLSR map can currently only be displayed on linux machines with the proper packages pre-installed, I was thinking of ways to provide this same capability to the Windows machines. Of course, the old standby of running an SSH client & an X-server & simply logging into the linux machine from the Windows machines came to mind first. I can certainly get that to work on my own Windows machines (since I already have SSH & an X-server installed on my Win7 laptop), but that's not a "universal" solution (particularly the X-server necessity . . . that's not something John Q Public would normally have on his stock Windows machine).

So, here's the hair-brained idea: would it be possible to install the required ImageMagick & graphviz tools on the mesh node itself, have it generate the normal PNG file like it currently does & then publish that PNG in a self-refreshing webpage web-hosted from the node ?? That way the Windows machines could just display this new webpage in their browser of choice & get the map without any other installation requirements imposed on their machines !!

Thoughts ?!?!? How far in the weeds have I found myself & can I get "there" from "here" ?!?!?

Mark J Culross
KD5RXT

2135. Re: having each mesh node generate its OLSR map in a webpage

Yahoo group: DAWG-HSMM
Date: 2011-05-24 16:17:23 UTC
From: kc4uai
Topic: 2125 Message: 2135

OK, I feel better, However....

We really should do three things at this point...

1. Put a CGI screen in place to display/manage the key configuration.
2. Make the user enter a key during the initial setup of the node and refuse to operate until this is done.
3. Only give the key to folks with verified licenses (Like the Echolink folks do)

I guess I get to do some development now...

-= bob =-

2136. Re: [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2011-05-24 17:06:16 UTC
From: Bob Diepenbrock
Topic: 2125 Message: 2136

Well.. That sounds nice, but this is not how this works in other situations.

What happens if you are a repeater operator and you hear a person using your repeater to play music? As the control operator, you are responsible to stop it.

Am I not responsible for the traffic on my mesh nodes? I think I am. Right now my only options are to use a different key. (And even that is not documented very well yet.) Say I run a BDA and clearly are using Part 97 privileges on a node... It is my license and I *could* be fined $10,000/day for allowing illegal traffic to be carried on my equipment.

And on your last statement....

I think it is necessary to follow the rules even if the FCC is unlikely to find out or care. Seems that is part of the terms under which they granted us the privileges to operate. Your mileage may vary.
-= Bob =-
On Mon, May 23, 2011 at 5:19 PM, Rusty Haddock <rusty@...>wrote:

>
>
> Bob Diepenbrock wrote:
> >Gordon (and others),
> >
> >What you say squares with my understanding. The problem I see is that
> there
> >is no way I can control the unlicensed guy next door. He can take his
>
> You control your stuff, less the guy next door worry about his. :-)
>
>
>

2137. Re: [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2011-05-24 17:25:27 UTC
From: Floyd Rodgers
Topic: 2125 Message: 2137

Seem likes the same accountability question as in packet radio. It has been a long time since I read the answer on that specific question, but memory tells me the BBS operator is not responsible for passed traffic, rather the originating party is. Some one could do some surfing and confirm this.

2138. Re: [DAWG-HSMM] having each mesh node generate its OLSR map in a webpage

Yahoo group: DAWG-HSMM
Date: 2011-05-24 18:35:30 UTC
From: Rusty Haddock
Topic: 2125 Message: 2138

Mark J Culross wrote:
>...
>ImageMagick & graphviz) to allow the laptop to display OLSR maps . . . after
>some stumbling & bumbling (purely ignorance of these packages on my part) works
>as advertised (what else did we expect !?!).

:-O OMG! Worked as advertised?? What will they think of next??? :-D

Don't worry, ignorance can be cured! Stupidity is a totally different beast
and not so lucky in having a cure.

>Now for the question: it is almost certain that most of the "clients" on?our
>mesh will be Windows machines.? Since the OLSR map can currently only be
>displayed on linux machines with the proper packages pre-installed, I was
>thinking of ways to provide this same capability to the Windows machines.? Of
>course, the old standby of running an SSH client & an X-server & simply logging
>into the linux machine from the Windows machines came to mind first.? I can
>certainly get that to work on my own Windows machines (since I already have SSH
>& an X-server installed on my Win7 laptop), but that's not a "universal"
>solution (particularly the X-server necessity . . . that's not something John Q
>Public would normally have on his stock Windows machine).
>?
>So, here's the hair-brained idea:? would it be possible to install the required
>ImageMagick & graphviz tools on the mesh node itself, have it generate the
>normal PNG file like it currently does & then publish that PNG in a
>self-refreshing webpage web-hosted from the node ?? That way the Windows
>machines could just display this new webpage in their browser of choice & get
>the map without any other installation requirements imposed on their machines !!
>?
>Thoughts ?!?!?? How far in the weeds have I found myself & can I get "there"
>from "here" ?!?!?

Mark, you've gone deep into weeds (are you smoking some? :-) and have
yet to realize that there are some nasty critters out there and yer
walking around barefoot! Nice try but let's look at some of the problems.

First off, ImageMagick is only needed for the display of the image,
something your web browser can do by its wittle, itty bitty self.
Not really a problem so we can cross it off the list.

The 'dot' program, in doing it's calculations to generate the .PNG file,
will put a serious hurt on a CPU. The CPU in our trusty '54G's is not all
that hefty. Having it computate those 'pretty' graphs will take away from
its ability to route packets and do its normal meshy, networky stuff.

Also, while the 'dot' program is fairly small, there are a number of library files that need to be pulled in at runtime in order for 'dot' to do its work. On my laptop they total up to about 3/4-megabyte. Sorry, we don't have that much Flash available on our mesh nodes. Even on the 54GS's with more RAM and Flash we still have the same ol' CPU and we're back to the previous issue.

At this point, the path in the weeds forks. On one side we have herbicide and on the other we have a weedwacker. :-) Here are my bald-brained idears. Either way, use some non-mesh node Linux/Unix machine to generate the .png. After that, you can choose one of the two paths:

1) scp the .png file over to a mesh node of your choice. Let its little webserver display the self-refreshing node map. Personally, I wouldn't update the graph as often as the Perl and Python scripts do but that's just my opinion.

2) Since yer gonna need a Linux/Unix machine to generate the graph, why not let it act as a webserver and serve up the self-refreshing node map itself instead of the wittle, itty, bitty mesh node?

Actually, putting a small Linux box on the mesh isn't such a bad idea since it can do a lot of things for you! It can act as a useful server for things like email, files, a chat server, Echolink proxy, and a suped-up web server. All of these things the wittle windows boxes can access and make use of, right? Heck, put a wireless card on the thing and run OLSR on the Linux box itself and let it be a mesh node.

Now let those critters stir around in the ol' gray matter for a bit and lemme know what you think, OK?

Have fun!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2139. Re: [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2011-05-24 19:36:05 UTC
From: Rusty Haddock
Topic: 2125 Message: 2139

Bob Diepenbrock wrote:
>Well.. That sounds nice, but this is not how this works in other situations.
>
>What happens if you are a repeater operator and you hear a person using your
>repeater to play music? As the control operator, you are responsible to
>stop it.

YOUR responsibility is for YOUR transmitter so far as 'repeating'
the music -- you have no control over the clown doing the original
transmitting! Naturally, it depends on what you mean by 'using
your repeater to play music' -- is the perp' using a phone patch?
While we are supposed to be self-policing that doesn't mean you can go
in and physically stop that critter from playing music on your repeater.
You couldn't control him if he was transmitting on simplex, or 2000-miles
away on HF, now could you? And do you leave your repeater operating
while you sleep? Who's the control operator then?

As nice as it sounds it DOES work in all situations. I stand by my
earlier statement.

>Am I not responsible for the traffic on my mesh nodes? I think I am. Right
>now my only options are to use a different key. (And even that is not
>documented very well yet.) Say I run a BDA and clearly are using Part 97
>privileges on a node... It is my license and I *could* be fined $10,000/day
>for allowing illegal traffic to be carried on my equipment.

You *could* be. Normally I'm a real stickler for the rules too -- my
early days as a ham was around employees of the FCC and communications
lawyers in and around the northern Virginia, Metro DC area.

BTW, how are you going to stop traffic from foreign countries from going
across your mesh if, say someone sucks down netnews from kremvax (yes,
an old joke) or points their browser to reads articles on the BBC or Al
Jazerra websites?? And this is of MAJOR importance if you're encrypting
your mesh!! If you wanna open up a can of worms be my guest -- I have
plenty of cans!

>And on your last statement....
>
>I think it is necessary to follow the rules even if the FCC is unlikely to
>find out or care. Seems that is part of the terms under which they granted
>us the privileges to operate. Your mileage may vary.

You are so right and I was being a bit facetious with that comment --
but it is true nonetheless (officials of the FCC, although not publicly,
have stated as much).

Enjoy the hobby!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
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2140. Re: [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2011-05-24 20:35:10 UTC
From: Don Weeks
Topic: 2125 Message: 2140

I think it's different here than packet radio because it took a radio to originate the traffic to a BBS. Here, anyone with a part 15 device can access these devices.

What in HSMM constitutes a part 97 use? I keep getting this confused because I know of a lot of Ubiquity Bullets and Rockets, pushing 1 watt of power, that are deployed at high altitudes (250 feet on towers to some on sky scrapers). Presumably, this would put them over part 15 power levels but I have not heard of this being called into question by the commercial and public sites deploying. Some cities use these to deploy city wide and I have not heard of licenses being granted to the cities.
Don

2141. Re: [DAWG-HSMM] having each mesh node generate its OLSR map in a webpage

Yahoo group: DAWG-HSMM
Date: 2011-05-24 20:40:14 UTC
From: Mark J Culross
Topic: 2125 Message: 2141

Rusty:

Thanks as always for your entertaining & informative answer !! You raise several very good points !! CPU loading: that could/would be of concern. Limited FLASH space: that could/would be of concern. That's exactly the kind of insight that I was looking for by asking the question & all inputs are much appreciated . . . we are very new to this mesh networking stuff & we are having a real BLAST playing with it !!

I can certainly put the linux machine on the mesh (we had already planned to have a RHEL5 machine to act as a fileserver for logging contacts & to act as our chat server), BUT (isn't there always a but in there somewhere), I was trying, right or wrong, to steer away from "requiring" the use of a linux box. For those (myself most certainly included) who are very comfortable in the linux sandbox, no problem, but not everyone likes to get their hands dirty in that way. For those who are comfortable only as long as the machines are running some variety of Windows, the linux solution would only add other potential problems, rather than providing a simple solution in their case.

Thanks again & I'll go put my shoes back on while I wander around some more out here in the weeds & see what I can find among the ruminations . . .

Mark J Culross
KD5RXT

From: Rusty Haddock <rusty@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Tue, May 24, 2011 1:35:30 PM
Subject: Re: [DAWG-HSMM] having each mesh node generate its OLSR map in a webpage

Mark J Culross wrote:
>...
>ImageMagick & graphviz) to allow the laptop to display OLSR maps . . . after
>some stumbling & bumbling (purely ignorance of these packages on my part) works

>as advertised (what else did we expect !?!).

:-O OMG! Worked as advertised?? What will they think of next??? :-D

Don't worry, ignorance can be cured! Stupidity is a totally different beast and not so lucky in having a cure.

>Now for the question: it is almost certain that most of the "clients" on our
>mesh will be Windows machines. Since the OLSR map can currently only be

>displayed on linux machines with the proper packages pre-installed, I was
>thinking of ways to provide this same capability to the Windows machines. Of
>course, the old standby of running an SSH client & an X-server & simply logging

>into the linux machine from the Windows machines came to mind first. I can
>certainly get that to work on my own Windows machines (since I already have SSH

>& an X-server installed on my Win7 laptop), but that's not a "universal"
>solution (particularly the X-server necessity . . . that's not something John Q

>Public would normally have on his stock Windows machine).
>
>So, here's the hair-brained idea: would it be possible to install the required

>ImageMagick & graphviz tools on the mesh node itself, have it generate the
>normal PNG file like it currently does & then publish that PNG in a
>self-refreshing webpage web-hosted from the node ?? That way the Windows
>machines could just display this new webpage in their browser of choice & get
>the map without any other installation requirements imposed on their machines
!!
>
>Thoughts ?!?!? How far in the weeds have I found myself & can I get "there"
>from "here" ?!?!?

Mark, you've gone deep into weeds (are you smoking some? :-) and have
yet to realize that there are some nasty critters out there and yer
walking around barefoot! Nice try but let's look at some of the problems.

First off, ImageMagick is only needed for the display of the image,
something your web browser can do by its wittle, itty bitty self.
Not really a problem so we can cross it off the list.

The 'dot' program, in doing it's calculations to generate the .PNG file,
will put a serious hurt on a CPU. The CPU in our trusty '54G's is not all
that hefty. Having it computate those 'pretty' graphs will take away from
its ability to route packets and do its normal meshy, networky stuff.

Also, while the 'dot' program is fairly small, there are a number of
library files that need to be pulled in at runtime in order for 'dot'
to do its work. On my laptop they total up to about 3/4-megabyte.
Sorry, we don't have that much Flash available on our mesh nodes.
Even on the 54GS's with more RAM and Flash we still have the same ol'
CPU and we're back to the previous issue.

At this point, the path in the weeds forks. On one side we have herbicide
and on the other we have a weedwacker. :-) Here are my bald-brained
idears. Either way, use some non-mesh node Linux/Unix machine to generate
the .png. After that, you can choose one of the two paths:

1) scp the .png file over to a mesh node of your choice.
Let its little webserver display the self-refreshing node map.
Personally, I wouldn't update the graph as often as the
Perl and Python scripts do but that's just my opinion.

2) Since yer gonna need a Linux/Unix machine to generate the graph, why not let it act as a webserver and serve up the self-refreshing node map itself instead of the wittle, itty, bitty mesh node?

Actually, putting a small Linux box on the mesh isn't such a bad idea since it can do a lot of things for you! It can act as a useful server for things like email, files, a chat server, Echolink proxy, and a suped-up web server. All of these things the wittle windows boxes can access and make use of, right? Heck, put a wireless card on the thing and run OLSR on the Linux box itself and let it be a mesh node.

Now let those critters stir around in the ol' gray matter for a bit and lemme know what you think, OK?

Have fun!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2142. Re: [DAWG-HSMM] having each mesh node generate its OLSR map in a webpage

Yahoo group: DAWG-HSMM
Date: 2011-05-24 22:01:23 UTC
From: Rusty Haddock
Topic: 2125 Message: 2142

Mark J Culross wrote:
>Rusty:
>
>Thanks as always for your entertaining & informative answer !!? You raise
>several very good points !!? CPU loading: that could/would be of concern.?
>Limited FLASH space: that could/would be of concern.? That's exactly the kind of
>insight that I was looking for by asking the question &?all inputs are?much
>appreciated . . . we are very new to this mesh networking stuff & we are having
>a real BLAST playing with it !!

Good for you and the rest of the gang at 'we'!! :-)

>I can certainly put the linux machine on the mesh (we had already planned to
>have?a RHEL5 machine to?act as a fileserver for logging contacts & to act as our
>chat server), BUT (isn't there always a but in there somewhere), I was trying,
>right or wrong, to steer away from "requiring" the use of a linux box.? For

OK, if you wanna go to the "Dark Side" there are a few things to consider.

1) 'dot' is part of a software package called GraphViz. I know only
of binaries for Linux and then there are the sources as well. Oh,
hold on a minute. What's this?? A Windows version? Ooooooww....
Aren't you the lucky dog. Check this out:

http://www.graphviz.org/Download_windows.php

Nevermind the rest of the things... Maybe this could be your contribution
to our mesh world??? Perl and Python both run on Windows so...

Since you're going to the Dark Side, tell my Dad that I said "Hi!"

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
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2143. A potentially useful addition ?

Yahoo group: DAWG-HSMM
Date: 2011-05-24 22:10:16 UTC
From: Todd Caldwell
Topic: 2143 Message: 2143

I've seen mention in several threads that it might be possible to run a version of HSMM-MESH on a linux PC.

That would seem to be a very useful tool to have in the toolbox, given the much larger storage capacity, and processor horsepower.

I was just wondering what it would take to do such a thing. I know we're perpetually short of developers, but we might have a few more folks that could work the PC side of linux than can the embedded version.

Bonus points if it's a plugin for a Trixbox install. An Asterisk PBX and webserver all in a mesh node would be handy. (And yes, I know it's been done in the router already. I'm more interested in a package that gives us more hardware options.)

Just some thoughts.

Todd Caldwell - K5SLR
Mesquite, TX

2144. Re: [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2011-05-24 23:19:38 UTC
From: Rusty Haddock
Topic: 2125 Message: 2144

Don Weeks wrote:
>What in HSMM constitutes a part 97 use? I keep getting this confused

Nothing. We're using Part 15 devices to accomplish HSMM. It's when we start modifying the units that we have to start using Part 97 since we'd be breaking the Part 15 rules.

>because I know of a lot of Ubiquity Bullets and Rockets, pushing 1
>watt of power, that are deployed at high altitudes (250 feet on towers

1-watt is the max per 15.247(b)(3). A quick search of Part 15 is not finding anything limiting the height of AP's. Maybe you can pass along a citation, Don.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
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2145. Re: [DAWG-HSMM] A potentially useful addition ?

Yahoo group: DAWG-HSMM
Date: 2011-05-24 23:58:52 UTC
From: Rusty Haddock
Topic: 2143 Message: 2145

Todd Caldwell wrote:
>I've seen mention in several threads that it might be possible to run a
>version of HSMM-MESH on a linux PC.

I don't know about the HSMM-MESH firmware per se but to put your Linux
PC onto the mesh, why not?

>That would seem to be a very useful tool to have in the toolbox, given
>the much larger storage capacity, and processor horsepower.
>
>I was just wondering what it would take to do such a thing. I know
>we're perpetually short of developers, but we might have a few more
>folks that could work the PC side of linux than can the embedded version.

Technically, to be part of the mesh you need to run an OLSR daemon with a
wireless card and configuring it to be similar to the mesh node config.
The 'olsrd' software provides a web interface on port 1978, just like
on the WRT54G's. I've done this with a little Zipit machine.

On the other hand, you can put a PC (Windows or Linux) on the mesh directly
by putting it in the DMZ from any mesh node.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
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2146. Re: [DAWG-HSMM] A potentially useful addition ?

Yahoo group: DAWG-HSMM
Date: 2011-05-25 00:01:35 UTC
From: Bill V WA7NWP
Topic: 2143 Message: 2146

:
> >I've seen mention in several threads that it might be possible to run a
> >version of HSMM-MESH on a linux PC.

open-wrt runs under QEMU... Maybe the same would work for HSMM-MESH?

https://forum.openwrt.org/viewtopic.php?pid=104411

Bill - WA7NWP

2147. High Flying Mesh Node

Yahoo group: DAWG-HSMM
Date: 2011-05-29 02:51:37 UTC
From: Rusty Haddock
Topic: 2147 Message: 2147

In case you haven't seen my FaceBook post I thought I'd let y'all know about my latest experiment.

KEWL! [warning: geek out approaching!]

About a half-hour before sunset, and after the winds had calmed down just a tad this evening, my little Zipit Z2 computer

http://en.wikipedia.org/wiki/Zipit_Wireless_Messenger_(Z2)

went for a ride on one of my kites, an "F-15". Alas, no sensors were on its maiden voyage BUT the little guy was configured to be part of my HSMM-MESH(tm) network (I had olsrd running on it) and it worked just fine.

Total string length was about 100-meters or 328-feet. Wind was about 5-10 mph, gusting to about 15-20 mph. I would say the top altitude to be about 175-200 feet above the ground and it could "see" quite a few of the neighbors WiFi access points when I "talked" to it (some I hadn't seen before). :-)

I've said a few times that I oughta try this sometime -- the kite should be able to fly with the little Z2 tied to it -- and it did and it worked well! Came down for a soft landing too and still "ticking".

Anyhoot, I wuz just geeking out. I'm really fairly harmless when I'm doing that. It's a shame the sound output isn't louder or I'd have it playback "EXTERMINATE! EXTERMINATE! EXTERMINATE!" in true Dr Who-esque Dalek fashion when it was flying over the neighbor's house. :-)

OK, enough for now. That wind'll really take it out of ya. I have some pictures that I may post later.

73
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2148. Re: Digest Number 702

Yahoo group: DAWG-HSMM
Date: 2011-05-29 03:13:48 UTC
From: wa3ite
Topic: 2121 Message: 2148

--- In DAWG-HSMM@yahoogroups.com, Kipton Moravec <kip@...> wrote:
>
> can you see the Mesquite tower from your roof?
>
> If you can see it you can hit it.

Probably not from my roof, but most assuredly from the 65-foot tower at our high school club station (NG5HS) a few miles west. I don't climb, so I'd need some help with this one.

Maybe a summer project if I get the time and the help...

2149. Re: [DAWG-HSMM] High Flying Mesh Node

Yahoo group: DAWG-HSMM
Date: 2011-05-29 06:36:00 UTC
From: Rusty Haddock
Topic: 2147 Message: 2149

Rusty Haddock wrote:
>...
>OK, enough for now. That wind'll really take it out of ya. I have some
>pictures that I may post later.

I've uploaded three pictures in the Photos section, in the "Kite Mesh"
album. Maybe more will go up after Memorial Day when I may fly again.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
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|/__V__/ Math illiteracy affects 7 out of 5 people!

2150. Re: [DAWG-HSMM] High Flying Mesh Node

Yahoo group: DAWG-HSMM
Date: 2011-05-29 13:16:44 UTC
From: Kilgore
Topic: 2147 Message: 2150

Congratulations! Glad you were able to get it running.

Doug KD5OUG

On 5/28/2011 9:51 PM, Rusty Haddock wrote:
> In case you haven't seen my FaceBook post I thought I'd let y'all know
> about my latest experiment.
>
> KEWL! [warning: geek out approaching!]
>
> About a half-hour before sunset, and after the winds had calmed down
> just a tad this evening, my little Zipit Z2 computer
>
> http://en.wikipedia.org/wiki/Zipit_Wireless_Messenger_(Z2)
>
> went for a ride on one of my kites, an "F-15". Alas, no sensors were
> on its maiden voyage BUT the little guy was configured to be part of my
> HSMM-MESH(tm) network (I had olsrd running on it) and it worked just fine.
>
> Total string length was about 100-meters or 328-feet. Wind was about
> 5-10 mph, gusting to about 15-20 mph. I would say the top altitude to
> be about 175-200 feet above the ground and it could "see" quite a few
> of the neighbors WiFi access points when I "talked" to it (some I hadn't
> seen before). :-)
>
> I've said a few times that I oughta try this sometime -- the kite should
> be able to fly with the little Z2 tied to it -- and it did and it worked
> well! Came down for a soft landing too and still "ticking".
>
> Anyhoot, I wuz just geeking out. I'm really fairly harmless when I'm
> doing that. It's a shame the sound output isn't louder or I'd have it
> playback "EXTERMINATE! EXTERMINATE! EXTERMINATE!" in true Dr Who-esque
> Dalek fashion when it was flying over the neighbor's house. :-)
>
> OK, enough for now. That wind'll really take it out of ya. I have some
> pictures that I may post later.
>
> 73
> -Rusty-

2151. displaying the mesh topology map on a Windows machine

Yahoo group: DAWG-HSMM
Date: 2011-05-29 17:03:19 UTC
From: Mark J Culross
Topic: 2151 Message: 2151
Attachments: 2 described; binary payloads are missing from this source WARC

Success !! Let me start out by saying "this is definitely still a work in progress" !! NOTE: anyone should feel free to push this to the hsmm-mesh higher echelon as needed/appropriate (I don't have an established presence there yet, so I would not feel comfortable doing so myself).

With that said, here's a first-cut at a method for displaying the OLSR topology map on a Windows machine (I am running WinXPpro specifically), which heretofore was only defined for doing so on a linux machine:

PREPARATIONS:

1) download & install python (I used "python-2.7.1.msi" specifically) from the following URL:

   http://www.python.org/download/releases/

2.1) download & install graphviz (I used "graphviz-2.28.0.msi" specifically) from the following URL:

   http://www.graphviz.org/Download_windows.php

2.2) NOTE: I seem to remember that I had to manually add the graphviz binary folder to the search path (C:\Program Files\Graphviz 2.28\bin), but I don't know if I did it or if graphviz did it & it became available following a reboot . . . you'll have to experiment & verify

3) copy the two attached files ("olsr-map.py" & "olsr-map.html") to a convenient place (I used "C:\olsr-map" specifically)

EXECUTIONS:

4.1) open a command prompt

   click Start, Programs, Accessories, Command Prompt

4.2) change to your convenient place that you used in step 3) above

   cd C:\olsr-map [RETURN]

4.3) run "olsr-map.py" in the command prompt window

   olsr-map.py [RETURN]   NOTE: this can be stopped using CTRL-C if needed

4.4) open a Windows Explorer window using your favorite method - mine is as follows

   right-click on My Computer on the desktop & select Explore

4.5) change to your convenient place that you used in step 3) above

click on "C:\olsr-map" in the left-hand pane

4.6) run "olsr-map.html" from the Windows Explorer window

double-click on "olsr-map.html" in the right-hand pane

EXCEPTIONS:

OK, now for the fine-print . . .

a) "olsr-map.py" occasionally emits an "Access is denied." message . . . reason unknown . . . does not seem to cause any problems (except to those of us who suffer from OCD & these kinds of "unexplainable" things drive us NUTS !!)

b) "olsr-map.py" occasionally exits with a report that says something to the effect of "socket.error: [Errno 10054] An existing connection was forcibly closed by the remote host" . . . reason unknown . . . fatal: see c) below

c) "olsr-map.html" will happily continue on its merry way, continuously displaying the "latest" map image, regardless of whether "olsr-map.py" continues to run or not . . . this means that if "olsr-map.py" has stopped/crashed, "olsr-map.html" will continue displaying a STATIC map, with no indication that anything at all is amiss !!

FUTURE EFFORT(S):

- I plan to update "olsr-map.html" so that, in addition to the map graphic, it also displays the timestamp from the latest map graphic file . . . that way, if the timestamp goes static, you know that "olsr-map.py" has probably stopped/crashed (again)

- I'd like to move away from using python & try using java instead . . . hopefully, this will alow a single "program" to initiate both the generation (calling dot) of the map graphic & the display (using html) of the map graphic (as well as allowing the same "program" to run on any java-capable platform) . . . doing this will require alignment of all of the planets just perfectly, but ONLY after the "honey-do" list is complete (IYKWIM) . . . until then, "it is what it is"

Good luck & most of all, have fun !!

Mark J Culross
KD5RXT

2152. Re: High Flying Mesh Node

Yahoo group: DAWG-HSMM
Date: 2011-05-30 00:28:30 UTC
From: walscobry
Topic: 2147 Message: 2152

AWESOME!

and a new trick to teach my ZIPIT2 --> mesh node.

Thanks for sharing.

Bryan
K4RKR

2153. Re: [DAWG-HSMM] displaying the mesh topology map on a Windows machine

Yahoo group: DAWG-HSMM
Date: 2011-05-30 03:43:13 UTC
From: Rusty Haddock
Topic: 2151 Message: 2153

Mark J Culross wrote:
>Success !!? Let me start out by saying "this is definitely still a work in
>progress" !!? NOTE: anyone should feel free to push this to the hsmm-mesh higher
>echelon as needed/appropriate (I don't have an established presence there yet,
>so I would not feel comfortable doing so myself).

Congrat's! I'll pass your message here onto the folks in Austin.

>....
>- I'd like to move away from using python & try using java instead . . .
>hopefully, this will alow a single "program" to initiate both the generation
>(calling dot) of the map graphic & the display (using html) of the map graphic

This can be done with any of the GUI interface packages for Python, such as
wxPython and tkinter.

>(as well as allowing the same "program" to run on any java-capable platform)?. .

Well, Python does a pretty fair job of doing this too.

FWIW...
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2154. So no takers on a 65-foot tower climb?

Yahoo group: DAWG-HSMM
Date: 2011-06-04 16:39:45 UTC
From: wa3ite
Topic: 2154 Message: 2154

I'd be willing to host a node if someone would be willing to climb a 65-foot tower to install the antenna (my limit is about 30 feet). This would fill in a big gap between the nodes to the north and the nodes in Mesquite. I'm assuming we can make a coax run from base to top without any significant loss in signal strength? If so, what's normally used for run of this length?

2155. Re: [DAWG-HSMM] So no takers on a 65-foot tower climb?

Yahoo group: DAWG-HSMM
Date: 2011-06-04 17:39:57 UTC
From: Todd M. Caldwell
Topic: 2154 Message: 2155

Hi,

The way you do this is to get some outdoor rated, preferably shielded, cat-5. The node goes in a box up at the tower location with very short cox runs to the antennas. Power comes up via the cat-5. one or more cat-5 lightning protectors are probably in order as well.

I'll ask around in the Mesquite group. We might have a tower climber or two.

73's

Todd Caldwell - K5SLR

On 6/4/2011 11:39, wa3ite wrote:
> I'd be willing to host a node if someone would be willing to climb a 65-foot tower to install the antenna (my limit is about 30 feet). This would fill in a big gap between the nodes to the north and the nodes in Mesquite. I'm assuming we can make a coax run from base to top without any significant loss in signal strength? If so, what's normally used for run of this length?
>

2156. Re: So no takers on a 65-foot tower climb?

Yahoo group: DAWG-HSMM
Date: 2011-06-04 20:31:41 UTC
From: wa3ite
Topic: 2154 Message: 2156

Easy enough. If you can find someone willing to climb, I'll get a node set up, enough cat-5 to make the run twice, and access to the tower. Any antenna recommendations?

--- In DAWG-HSMM@yahoogroups.com, "Todd M. Caldwell" <tmCaldwell@...> wrote:
>
> Hi,
>
> The way you do this is to get some outdoor rated, preferably
> shielded, cat-5. The node goes in a box up at the tower location with
> very short cox runs to the antennas. Power comes up via the cat-5. one
> or more cat-5 lightning protectors are probably in order as well.
>
> I'll ask around in the Mesquite group. We might have a tower climber
> or two.
>
> 73's
>
> Todd Caldwell - K5SLR
>
>
>
> On 6/4/2011 11:39, wa3ite wrote:
> > I'd be willing to host a node if someone would be willing to climb a 65-foot tower to install the antenna (my limit is about 30 feet). This would fill in a big gap between the nodes to the north and the nodes in Mesquite. I'm assuming we can make a coax run from base to top without any significant loss in signal strength? If so, what's normally used for run of this length?
> >
>

2157. Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2011-06-06 17:49:50 UTC
From: Rusty Haddock
Topic: 2037 Message: 2157

Tuesday June 7th is the next Digital Tuesday.

7:00 start time
6:30 if you want help loading MESH software on your router.

299 Connor Lane
Lucas, TX 75002

Follow the driveway to the back gate and to the pool house.

The big item for the night is meshing around at HamCom.
Kip will have his server available (that I've been building :-)

And there was something else but I can't think what it was.
Kip-ster, do you remember?

Rusty should also have some good HSMM-MESH news to present to the
group so...

BE THERE (or be somewhere else and probably miserable :-).

--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2158. An Extra Hour of MESH Talk at HamCom!!!

Yahoo group: DAWG-HSMM
Date: 2011-06-08 18:52:51 UTC
From: Rusty Haddock
Topic: 2158 Message: 2158

Yes, it's not on the HamCom schedule 'cause we just got the OK to (ab)use
an empty room from HamCom coordinator John Beetles on Tuesday afternoon.
I have what I'd call an advanced MESH topics talk at 2pm although it
will not be in the same room as the currently scheduled talks at HamCom.
I don't plan on going the whole hour so Kip and/or Glenn may have some
other topics with which to blow your mind as well.

"Advanced Topics in HSMM-MESH -- Configuration" will be presented in the
Fairview rooms at 2pm on Saturday. These rooms are right next door to
the Sunny Slopes rooms that the 11am and 12noon presentations will be in.
We'll have an hour break from the end of Glenn's MESH Update presentation.

It won't be for the faint of heart so bring your nitro'... if you dare!

See you there!!!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2159. New Digital ATV Group

Yahoo group: DAWG-HSMM
Date: 2011-06-08 21:18:17 UTC
From: Mark Thompson
Topic: 2159 Message: 2159

A new yahoo group dedicated to Digital Amateur Television has been created.

The purpose of the group is to share knowledge & experiences using & developing DATV technology for amateur use.

You can join the group at: http://groups.yahoo.com/group/DigitalATV/

Look forward to your participation in the group.

73, Mark, WB9QZB

2160. Grandson KD5RVJ Works NWS Booth At HamCom

Yahoo group: DAWG-HSMM
Date: 2011-06-10 05:42:38 UTC
From: Kilgore
Topic: 2160 Message: 2160

My grandson John Lake KD5RVJ will be working in the National Weather Service booth at HamCom on Saturday. Look for the tall, skinny young man.

John got his Tech license at age 12. He has helped on public service events during his high school years - the Richardson Christmas Parade and the White Rock Marathon. One summer he attended the Skywarn school at HamCom with me. That piqued his interest in meteorology. He is now a Senior at Texas A&M completing a double major of Meteorology and Computer Science.

Be sure to stop by on Saturday and say hi. Tell him you know me.

Doug Kilgore KD5OUG

2161. hsmm-mesh source

Yahoo group: DAWG-HSMM
Date: 2011-06-14 23:20:11 UTC
From: w5isp
Topic: 2161 Message: 2161

Hi Everyone,

Since it's my first post I'll give a little self introduction. I've been licensed (KC5VQD, now W5ISP) since 1996. I started a Wireless ISP (Verona Networks) in 2001 for myself and friends/family, and took it commercial in 2006.

I'm in the process of getting hsmm-mesh ported to run on Ubiquiti hardware since that's what I use for some client delivery and have a fair amount of spares on hand at any given time.

Does anyone have a snapshot of the current source tree they can send me? I requested access last week and haven't heard anything. All of my development will be posted to an open repository on github once it's closer to working.

Thanks!
Graham McIntire
W5ISP

2162. Re: [DAWG-HSMM] hsmm-mesh source

Yahoo group: DAWG-HSMM
Date: 2011-06-14 23:32:40 UTC
From: Kipton Moravec
Topic: 2161 Message: 2162

On Tue, 2011-06-14 at 23:20 +0000, w5isp wrote:
> Hi Everyone,
>
> Since it's my first post I'll give a little self introduction. I've been licensed (KC5VQD, now W5ISP) since 1996. I started a Wireless ISP (Verona Networks) in 2001 for myself and friends/family, and took it commercial in 2006.
>
> I'm in the process of getting hsmm-mesh ported to run on Ubiquiti hardware since that's what I use for some client delivery and have a fair amount of spares on hand at any given time.
>
> Does anyone have a snapshot of the current source tree they can send me? I requested access last week and haven't heard anything. All of my development will be posted to an open repository on github once it's closer to working.
>
> Thanks!
> Graham McIntire
> W5ISP
>
>
>
Rusty can help you more. There is a SVN repository of the code you can
check out. I do not know how to do it, but Rusty does.

Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2163. Re: [DAWG-HSMM] hsmm-mesh source

Yahoo group: DAWG-HSMM
Date: 2011-06-15 03:10:09 UTC
From: Rusty Haddock
Topic: 2161 Message: 2163

Kipton Moravec wrote:
>On Tue, 2011-06-14 at 23:20 +0000, w5isp wrote:
>> Hi Everyone,
>> Since it's my first post I'll give a little self introduction.
>> I've been licensed (KC5VQD, now W5ISP) since 1996. I started a
>> Wireless ISP (Verona Networks) in 2001 for myself and friends/family,
>> and took it commercial in 2006.
>>
>> I'm in the process of getting hsmm-mesh ported to run on Ubiquiti
>> hardware since that's what I use for some client delivery and have
>> a fair amount of spares on hand at any given time.

That's great. I'm about to start on developing for the Ubi' Bullet
M2 myself.

>> Does anyone have a snapshot of the current source tree they can
>> send me? I requested access last week and haven't heard anything.
>> All of my development will be posted to an open repository on
>> github once it's closer to working.

Graham, between the real world and prep'ing for HamCom we have all
been rather busy.

>Rusty can help you more. There is a SVN repository of the code you can
>check out. I do not know how to do it, but Rusty does.

I do but it requires an account on the server. Access to the source
code comes from David Rivenburg, AD5OO, ad5oo@.... Besides,
I don't have a pristine copy to give out.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2164. HSMM-MESH Webinar

Yahoo group: DAWG-HSMM
Date: 2011-06-15 20:03:31 UTC
From: Kipton Moravec
Topic: 2164 Message: 2164

I am looking at August 13 for the next HSMM-MESH Webinar.

Does anybody have a good reason to not have it on that day? Usually we will start at 9:00 a.m. Central Time and we can go as long as we want.

If this is something you are interested in presenting something about, contact me directly and we can work something out.

The guidelines are you will need a headset, and windows computer. Remember video does not work at all. The relay is too slow.

I am working at running it like we did in January from the Lucas Fire Station, but presenters can be physically located anywhere in the world as long as they have a good Internet connection. So to present you do not have to be in Lucas. To attend you can also be anywhere.

As soon as I confirm the Fire Station and Webinar Availability I will make an "official" announcement.

Kip

--
Kipton Moravec AE5IB .- . ... -...

"Always do right; this will gratify some people and astonish the rest."
--Mark Twain

2165. Re: [DAWG-HSMM] HSMM-MESH Webinar

Yahoo group: DAWG-HSMM
Date: 2011-06-15 21:46:13 UTC
From: Rusty Haddock
Topic: 2164 Message: 2165

Kipton Moravec wrote:
>I am looking at August 13 for the next HSMM-MESH Webinar.

>Does anybody have a good reason to not have it on that day? Usually we
>will start at 9:00 a.m. Central Time and we can go as long as we want.

How 'bout in September or October when it's not so blazing hot outside???
This allows any sort of outside activity, such as putting up nodes, masts,
etc. to be a bit more tolerable.

And can we please have the session recorded in a STANDARD video
format and not the proprietary format of the past? Making the webinar
available afterwards is pretty much predicated upon the availability of
a non-Windows proprietary file format. I've got last winter's session
and trying to convert it to something web-friendly like MPEG4 or much
anything else has been a real chore.

>If this is something you are interested in presenting something about,
>contact me directly and we can work something out.
>
>The guidelines are you will need a headset, and windows computer.
>Remember video does not work at all. The relay is too slow.
>
>I am working at running it like we did in January from the Lucas Fire
>Station, but presenters can be physically located anywhere in the world
>as long as they have a good Internet connection. So to present you do
>not have to be in Lucas. To attend you can also be anywhere.

Any sort of theme or direction for this webinar? Maybe something a
little less basic than the past?

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2166. Re: un-bricking a WRT54G family router

Yahoo group: DAWG-HSMM
Date: 2011-06-15 21:51:05 UTC
From: j4m35c0m3r
Topic: 2109 Message: 2166

Does anyone have a printed version they can insert in a post here. I cannot get to the hsmm-mesh website today. I'm suspecting that it's down.

James
KB5FVS

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> Mark J Culross wrote:
> >All:
> >
> >For those of us who are playing with the WRT-54G family of routers & turning
> >them into mesh routers, the day might come (whether as a result of a local
> >screw-up, or because we found a router for a VERY cheap price somewhere) when
> >you realize that your router has just become an expensive paperweight . . .
> >unfortunately, it's been "bricked".
> >
> >As I searched the internet for instructions on how to un-brick routers for Tommy
> >& Bill (they bought theirs already bricked . . . no extra charge !!), here's the
> >website that I found to be most useful:
> >
> > http://linksysinfo.org/forums/showthread.php?t=47259
>
> The only thing that I'll say is that, to ME, the second(?) revival tip
> is NOT to be trusted. Even though the website warns the reader that
> not all FLASH memories used by Linksys were of the Intel variety, that
> there were numerous makes of those chips used, and even minor variations
> in the circuits boards. Shorting those pins can be quite hazardous to
> your router, even worse shorting the wrong pins. I have a WRT54G v2.2
> that is quite dead to, what I believe was, my attempt to short those
> pins in order to revive my non-responding patient. If it were me, this
> would screwdriver thingie be my last ditch effort before throwing the
> unit out into the trash. Surely, there may be some people out there
> that swear by this method -- I, for one, will swear AT it.
>
> If the 'tftp' method doesn't work then probably THE BEST WAY is to
> connect to the first internal serial port (the console) and deal with
> the situation from the command line of the monitor/bootloader. It's not
> necessarily quick or easy but safer than sticking a tiny screwdriver
> between short circuit board traces. I know this doesn't work for version
> 1.x of the 54G line but... those models are not that prevalent.
>
> Please note that if your router has the HSMM-MESH firmware installed,
> there is a fail-safe mode that I've used with 100% success in recovering
> "bricked" units as well as those whose root password had been forgotten.

```
> The method is here:
>
> http://hsmm-mesh.org/documentation/71-using-safe-mode-to-reset-a-forgotten-password.html
>
> Again, this is ONLY for WRT54G,GL,and GS units that were last running
> the HSMM-MESH version of the OpenWRT firmware.
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | ( -< O o Van Alstyne (TX) Metropolitan Area
> |/\__V__/ Math illiteracy affects 7 out of 5 people!
>
```

2167. Re: un-bricking a WRT54G family router

Yahoo group: DAWG-HSMM
Date: 2011-06-16 00:55:26 UTC
From: j4m35c0m3r
Topic: 2109 Message: 2167

Thank you very much Pat. I just got back to this and also noticed the website is back up as well. Really appreciate your help.
Thanks,
James
KB5FVS

--- In DAWG-HSMM@yahoogroups.com, "j4m35c0m3r" <james.comer@...> wrote:
>
> Does anyone have a printed version they can insert in a post here. I cannot get to the hsmm-mesh website today. I'm suspecting that it's down.
>
> James
> KB5FVS
>
> --- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@> wrote:
> >
> > Mark J Culross wrote:
> > >All:
> > >
> > >For those of us who are playing with the WRT-54G family of routers & turning
> > >them into mesh routers, the day might come (whether as a result of a local
> > >screw-up, or because we found a router for a VERY cheap price somewhere) when
> > >you realize that your router has just become an expensive paperweight . . .
> > >unfortunately, it's been "bricked".
> > >
> > >As I searched the internet for instructions on how to un-brick routers for Tommy
> > >& Bill (they bought theirs already bricked . . . no extra charge !!), here's the
> > >website that I found to be most useful:
> > >
> > >   http://linksysinfo.org/forums/showthread.php?t=47259
> >
> > The only thing that I'll say is that, to ME, the second(?) revival tip
> > is NOT to be trusted. Even though the website warns the reader that
> > not all FLASH memories used by Linksys were of the Intel variety, that
> > there were numerous makes of those chips used, and even minor variations
> > in the circuits boards. Shorting those pins can be quite hazardous to
> > your router, even worse shorting the wrong pins. I have a WRT54G v2.2
> > that is quite dead to, what I believe was, my attempt to short those
> > pins in order to revive my non-responding patient. If it were me, this
> > would screwdriver thingie be my last ditch effort before throwing the
> > unit out into the trash. Surely, there may be some people out there
> > that swear by this method -- I, for one, will swear AT it.
> >
> > If the 'tftp' method doesn't work then probably THE BEST WAY is to
> > connect to the first internal serial port (the console) and deal with

> > the situation from the command line of the monitor/bootloader. It's not
> > necessarily quick or easy but safer than sticking a tiny screwdriver
> > between short circuit board traces. I know this doesn't work for version
> > 1.x of the 54G line but... those models are not that prevalent.
> >
> > Please note that if your router has the HSMM-MESH firmware installed,
> > there is a fail-safe mode that I've used with 100% success in recovering
> > "bricked" units as well as those whose root password had been forgotten.
> > The method is here:
> >
> >
http://hsmm-mesh.org/documentation/71-using-safe-mode-to-reset-a-forgotten-password.html
> >
> > Again, this is ONLY for WRT54G,GL,and GS units that were last running
> > the HSMM-MESH version of the OpenWRT firmware.
> >
> > -Rusty-
> > --
> > _____ Rusty Haddock <=> AE5AE
> > |\/ o \ o Way out yonder in the
> > | (-< O o Van Alstyne (TX) Metropolitan Area
> > |/__V__/ Math illiteracy affects 7 out of 5 people!
> >
>

2168. Re: [DAWG-HSMM] HSMM-MESH Webinar

Yahoo group: DAWG-HSMM
Date: 2011-06-16 02:13:39 UTC
From: Floyd Rodgers
Topic: 2164 Message: 2168

If the video is digital, I may be able to help. What format is it now and what do you want it to be?

2169. Ubiquiti Bullet 2HP

Yahoo group: DAWG-HSMM
Date: 2011-06-16 23:10:57 UTC
From: K0YR Thomas Rieff
Topic: 2169 Message: 2169

Our club is exploring the HSMM Mesh concept in our community. We have access to a lot of strategic locations to do a mesh network. I bought a bullet last fall and a omni waveguide antenna for the first node at my house. Anyways, most of the work so far has been with linksys routers. The Ubiquiti equipment seems to be well suited for the task at hand. So, for those of you that have worked with the bullets, do I need to re-flash them with openwrt and then add olsr???
Has anyone done this??? Can someone point me in the right direction???
Tom, K0YR

K0YR
Thomas Rieff
North Mankato, MN 56001
(507) 381-0660 Cell

2170. Re: Ubiquiti Bullet 2HP

Yahoo group: DAWG-HSMM
Date: 2011-06-17 14:53:08 UTC
From: Pete B
Topic: 2169 Message: 2170

Try this link

http://www.ubnt.com/wiki/Bullet_Nano_mesh

2171. Turning a router into an APRS gateway

Yahoo group: DAWG-HSMM
Date: 2011-06-21 04:54:30 UTC
From: Kilgore
Topic: 2171 Message: 2171

Turning a router into an APRS gateway:

http://hackaday.com/2011/06/09/turning-a-router-into-an-aprs-gateway/

2172. Digital Tuesday tonight!

Yahoo group: DAWG-HSMM
Date: 2011-06-21 06:32:47 UTC
From: Rusty Haddock
Topic: 2172 Message: 2172

Tuesday June 21st is the next Digital Tuesday.
Right on the Summer Solstice too!

7:00 start time
6:30 if you want help loading MESH software on your router.

299 Connor Lane Google Maps
Lucas, TX 75002 http://goo.gl/maps/Saah

Follow the driveway to the back gate and to the pool house.

I haven't heard from the Kipster but I'm sure we'll talk some about the
wild time at HamCom.

BE THERE... or be somewhere else and probably not having near as good
of a time! :-P

Todd, I will have your POE injectors.
Patrick, would you mind bringing one of your buckets to show off??

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2173. Re: [DAWG-HSMM] Digital Tuesday tonight!

Yahoo group: DAWG-HSMM
Date: 2011-06-21 17:37:44 UTC
From: Jimmy Dominguez
Topic: 2172 Message: 2173

I won't make this one; already have another meeting scheduled !

Take notes !!

Jimmy
KE5PEQ

On Tue, Jun 21, 2011 at 1:32 AM, Rusty Haddock <rusty@fe2o3.lonestar.org>wrote:

> **
>
>
> Tuesday June 21st is the next Digital Tuesday.
> Right on the Summer Solstice too!
>
> 7:00 start time
> 6:30 if you want help loading MESH software on your router.
>
> 299 Connor Lane Google Maps
> Lucas, TX 75002 http://goo.gl/maps/Saah
>
> Follow the driveway to the back gate and to the pool house.
>
> I haven't heard from the Kipster but I'm sure we'll talk some about the
> wild time at HamCom.
>
> BE THERE... or be somewhere else and probably not having near as good
> of a time! :-P
>
> Todd, I will have your POE injectors.
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> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
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> |/__V__/ Math illiteracy affects 7 out of 5 people!
>
>

2174. Re: [DAWG-HSMM] Digital Tuesday tonight!

Yahoo group: DAWG-HSMM
Date: 2011-06-21 17:47:15 UTC
From: Todd Caldwell
Topic: 2172 Message: 2174

Looks like I'll have to miss this one. I've got a couple of projects
that have to be finished in the next couple of days. (Neither of them
ham related...)

Hopefully see you in a couple of weeks.

Todd

Rusty Haddock wrote:
> Tuesday June 21st is the next Digital Tuesday.
> Right on the Summer Solstice too!
>
> 7:00 start time
> 6:30 if you want help loading MESH software on your router.
>
> 299 Connor Lane Google Maps
> Lucas, TX 75002 http://goo.gl/maps/Saah
>
> Follow the driveway to the back gate and to the pool house.
>
> I haven't heard from the Kipster but I'm sure we'll talk some about the
> wild time at HamCom.
>
> BE THERE... or be somewhere else and probably not having near as good
> of a time! :-P
>
> Todd, I will have your POE injectors.
> Patrick, would you mind bringing one of your buckets to show off??
>
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!

2175. Re: [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2011-06-23 21:52:16 UTC
From: Bob Diepenbrock
Topic: 2125 Message: 2175

Just rememember....

Once you take off the builder's supplied antenna, you will nolonger be in part 15 operation. My node at home is an example, it's part 97 because I have a beam attached to it. Yet, the guy next door could easily put up a part 15 device and use my node for something that's not allowed on ham radio and I'm the one in legal trouble.

My point here is that we really need to control access to HSMM-MESH nodes to folks who have a part 97 license (in the USA) just like the Echolink guys do. They have to see your license, then they will let you connect to their system. APRS works in almost the same way, you have to validate that you have a part 97 license if you want to have full use of the website.

I can imagine easy ways to do this, but the HSMM-MESH firmware doesn't support them in the current form.
-= bob =-
On Tue, May 24, 2011 at 6:19 PM, Rusty Haddock <rusty@fe2o3.lonestar.org>wrote:

> **
>
>
> Don Weeks wrote:
> >What in HSMM constitutes a part 97 use? I keep getting this confused
>
> Nothing. We're using Part 15 devices to accomplish HSMM. It's when we
> start modifying the units that we have to start using Part 97 since we'd
> be breaking the Part 15 rules.
>
>
> >because I know of a lot of Ubiquity Bullets and Rockets, pushing 1
> >watt of power, that are deployed at high altitudes (250 feet on towers
>
> 1-watt is the max per 15.247(b)(3). A quick search of Part 15 is not
> finding anything limiting the height of AP's. Maybe you can pass along
> a citation, Don.
>
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>
>

>

2176. Re: [DAWG-HSMM] A potentially useful addition ?

Yahoo group: DAWG-HSMM
Date: 2011-06-23 22:01:44 UTC
From: Bob Diepenbrock
Topic: 2143 Message: 2176

You are correct.

I can imagine being able to set up "super nodes" with multiple wireless cards connected to multiple directional antennas running on common off the shelf PC hardware. Then you would have a lot of horse power and storage space on your linux box to run all sorts of other things. I imagine that these "super nodes" would be located in key locations and comprise the "back bone" network for a HSMM-MESH area.

As Rusty says, it's just necessary to talk OLSR with the other nodes you can see in the mesh and have the OLSR security key configured and you are on the mesh. I'm told there are some bugs in the OLSR software that causes problems between platforms, but I thought that a fix for that was forthcoming.

-= Bob =-

On Tue, May 24, 2011 at 5:10 PM, Todd Caldwell <tmCaldwell@...> wrote:

> **
>
>
> I've seen mention in several threads that it might be possible to run a
> version of HSMM-MESH on a linux PC.
>
> That would seem to be a very useful tool to have in the toolbox, given
> the much larger storage capacity, and processor horsepower.
>
> I was just wondering what it would take to do such a thing. I know
> we're perpetually short of developers, but we might have a few more
> folks that could work the PC side of linux than can the embedded version.
>
> Bonus points if it's a plugin for a Trixbox install. An Asterisk PBX
> and webserver all in a mesh node would be handy. (And yes, I know it's
> been done in the router already. I'm more interested in a package that
> gives us more hardware options.)
>
> Just some thoughts.
>
> Todd Caldwell - K5SLR
> Mesquite, TX
>
>

2177. Re: [DAWG-HSMM] So no takers on a 65-foot tower climb?

Yahoo group: DAWG-HSMM
Date: 2011-06-23 22:13:25 UTC
From: Bob Diepenbrock
Topic: 2154 Message: 2177

Well, you don't want to run 60 feet of coax at 2.4 GHz unless you have some kind of amplifier. Even LMR-400 will have nearly 19 dB of loss. What you want to do is put a CAT-5 run up the tower and use "power over Ethernet" techniques to power a router in a weather proof box up in the tower.

However, be careful with the CAT-5 you pick. Most of the cable you will find will not fair well in sunlight and most of it is solid conductor cable which will work harden and break pretty quick if it is handled much.

If you are still interested, I may be able to help finding the enclosure and some antennas.

-= Bob =-
On Sat, Jun 4, 2011 at 11:39 AM, wa3ite <brianko@gmail.com> wrote:

> **
>
>
> I'd be willing to host a node if someone would be willing to climb a
> 65-foot tower to install the antenna (my limit is about 30 feet). This would
> fill in a big gap between the nodes to the north and the nodes in Mesquite.
> I'm assuming we can make a coax run from base to top without any significant
> loss in signal strength? If so, what's normally used for run of this length?
>
>
>

2178. Re: [DAWG-HSMM] hsmm-mesh source

Yahoo group: DAWG-HSMM
Date: 2011-06-23 22:26:18 UTC
From: Bob Diepenbrock
Topic: 2161 Message: 2178

Welcome to the HSMM-MESH...

I'm not sure what the Ubiquiti hardware is, but I can describe what the HSMM-MESH firmware is and why it runs on the linksys hardware.

Linksys used some GNU software in their past wireless routers. GNU software requires that you release your source if you change it and release it to your customers. This forced the release of the source code for some of the Linksys router offerings. Some folks took this source code and cobbled together a Linux variant that could use all the hardware on the Linksys routers and since then they have been used as small linux boxes on many networks. OpenWRT I believe is the name of the project that did this. HSMM-MESH just uses that as a base and puts their own user interface on it.

So, if you can get Ubiquiti hardware to run a variant of Linux and get the necessary drivers to get all the hardware working on them... It would not be too hard to get HSMM_MESH built and working on the linux platform, assuming there is enough storage space and memory. Once you had all the services up and running that HSMM-MESH requires you'd be basically on the MESH with new hardware.

-= Bob =-

On Tue, Jun 14, 2011 at 6:20 PM, w5isp <gmcintire@...> wrote:

> **
>
>
> Hi Everyone,
>
> Since it's my first post I'll give a little self introduction. I've been
> licensed (KC5VQD, now W5ISP) since 1996. I started a Wireless ISP (Verona
> Networks) in 2001 for myself and friends/family, and took it commercial in
> 2006.
>
> I'm in the process of getting hsmm-mesh ported to run on Ubiquiti hardware
> since that's what I use for some client delivery and have a fair amount of
> spares on hand at any given time.
>
> Does anyone have a snapshot of the current source tree they can send me? I
> requested access last week and haven't heard anything. All of my development
> will be posted to an open repository on github once it's closer to working.
>
> Thanks!
> Graham McIntire
> W5ISP

>
>
>

2179. Re: [DAWG-HSMM] Part 15 or Part 97 operation of HSMM-MESH nodes

Yahoo group: DAWG-HSMM
Date: 2011-06-24 02:02:45 UTC
From: Nikropht
Topic: 2125 Message: 2179

I would be cool if we could somehow incorporate our calls in the mesh
protocol so that if there wasn't a somewhat valid call proper length format
ect or non at all the nodes would just ignore the outsider.

-Mike
KD5QLN

On Thu, Jun 23, 2011 at 4:52 PM, Bob Diepenbrock <kc4uai@...> wrote:

> **
>
>
> Just rememember....
>
> Once you take off the builder's supplied antenna, you will nolonger be
> in part 15 operation. My node at home is an example, it's part 97 because I
> have a beam attached to it. Yet, the guy next door could easily put up a
> part 15 device and use my node for something that's not allowed on ham radio
> and I'm the one in legal trouble.
>
> My point here is that we really need to control access to HSMM-MESH nodes
> to folks who have a part 97 license (in the USA) just like the Echolink guys
> do. They have to see your license, then they will let you connect to their
> system. APRS works in almost the same way, you have to validate that you
> have a part 97 license if you want to have full use of the website.
>
> I can imagine easy ways to do this, but the HSMM-MESH firmware doesn't
> support them in the current form.
> -= bob =-
> On Tue, May 24, 2011 at 6:19 PM, Rusty Haddock <rusty@...>wrote:
>
>> **
>>
>>
>> Don Weeks wrote:
>> >What in HSMM constitutes a part 97 use? I keep getting this confused
>>
>> Nothing. We're using Part 15 devices to accomplish HSMM. It's when we
>> start modifying the units that we have to start using Part 97 since we'd
>> be breaking the Part 15 rules.
>>
>>
>> >because I know of a lot of Ubiquity Bullets and Rockets, pushing 1
>> >watt of power, that are deployed at high altitudes (250 feet on towers
>>
>> 1-watt is the max per 15.247(b)(3). A quick search of Part 15 is not

```
>> finding anything limiting the height of AP's. Maybe you can pass along
>> a citation, Don.
>>
>>
>> -Rusty-
>> --
>> _____ Rusty Haddock <=> AE5AE
>> |\/ o \ o Way out yonder in the
>> | ( -< O o Van Alstyne (TX) Metropolitan Area
>> |/\__V__/ Math illiteracy affects 7 out of 5 people!
>>
>>
>
>
```

2180. Re: [DAWG-HSMM] HSMM-MESH Webinar

Yahoo group: DAWG-HSMM
Date: 2011-06-24 04:04:41 UTC
From: Rusty Haddock
Topic: 2164 Message: 2180

Floyd Rodgers wrote:
>If the video is digital, I may be able to help. What format is it now
>and what do you want it to be?

Ah ha! I've been looking for where this message went to and now I have found it.

Floyd, the video from the webinar is a WMV file encoded with G2M3, a special video codec used by GoToMeeting. If you have some program or process to convert this file to, say, MP4 or something less proprietary I'd be glad to get you the file to convert.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2181. Re: hsmm-mesh source

Yahoo group: DAWG-HSMM
Date: 2011-06-24 14:08:07 UTC
From: kk5it94
Topic: 2161 Message: 2181

Bob:

I have been looking at the Ubiquiti platform for a while, specifically the routerstation pro. It is a board with 128MB RAM and 16MB flash. It will take up to 3 mini-pci cards such as the XR2 2.4GHz, XR3 3.XGHz XR5 5GHZ. It ships with OpenWRT by default so I would think it would not be too difficult to get the HSMM-MESH firmware to run on it. Something like this could possibly used for providing local mesh and a backbone link on another band say 3GHz where we are the primary user, I believe. Down here is South Florida, it is really flat, but spread out to a point where the concentration of mesh nodes would not allow us to carry data very far without some high gain backbone links.

http://www.ubnt.com/rspro

--- In DAWG-HSMM@yahoogroups.com, Bob Diepenbrock <kc4uai@...> wrote:
>
> Welcome to the HSMM-MESH...
>
> I'm not sure what the Ubiquiti hardware is, but I can describe what the
> HSMM-MESH firmware is and why it runs on the linksys hardware.
>
> Linksys used some GNU software in their past wireless routers. GNU software
> requires that you release your source if you change it and release it to
> your customers. This forced the release of the source code for some of the
> Linksys router offerings. Some folks took this source code and cobbled
> together a Linux variant that could use all the hardware on the Linksys
> routers and since then they have been used as small linux boxes on many
> networks. OpenWRT I believe is the name of the project that did this.
> HSMM-MESH just uses that as a base and puts their own user interface on it.
>
> So, if you can get Ubiquiti hardware to run a variant of Linux and get the
> necessary drivers to get all the hardware working on them... It would not be
> too hard to get HSMM_MESH built and working on the linux platform, assuming
> there is enough storage space and memory. Once you had all the services up
> and running that HSMM-MESH requires you'd be basically on the MESH with new
> hardware.
>
> -= Bob =-
>
> On Tue, Jun 14, 2011 at 6:20 PM, w5isp <gmcintire@...> wrote:
>
> > **
> >
> >
> > Hi Everyone,
> >
> > Since it's my first post I'll give a little self introduction. I've been

> > licensed (KC5VQD, now W5ISP) since 1996. I started a Wireless ISP (Verona
> > Networks) in 2001 for myself and friends/family, and took it commercial in
> > 2006.
> >
> > I'm in the process of getting hsmm-mesh ported to run on Ubiquiti hardware
> > since that's what I use for some client delivery and have a fair amount of
> > spares on hand at any given time.
> >
> > Does anyone have a snapshot of the current source tree they can send me? I
> > requested access last week and haven't heard anything. All of my development
> > will be posted to an open repository on github once it's closer to working.
> >
> > Thanks!
> > Graham McIntire
> > W5ISP
> >
> >
> >
>

2182. Re: [DAWG-HSMM] So no takers on a 65-foot tower climb?

Yahoo group: DAWG-HSMM
Date: 2011-06-26 06:18:36 UTC
From: kevin asato
Topic: 2154 Message: 2182

Run the CAT-5 up through conduit to protect it from exposure to the sun and wind. Yeah, it's added cost but will look better in the long run
73,kevinkc6pob

However, be careful with the CAT-5 you pick. Most of the cable you will find will not fair well in sunlight and most of it is solid conductor cable which will work harden and break pretty quick if it is handled much.

2183. Re: So no takers on a 65-foot tower climb?

Yahoo group: DAWG-HSMM
Date: 2011-06-26 23:46:14 UTC
From: Pat Snyder
Topic: 2154 Message: 2183

A possibility would be to use a length of 1/2" garden hose for the wrapper. Not to expensive and easy to flex.

Pat
K4PAT
==========
Run the CAT-5 up through conduit to protect it from exposure to the sun and wind. Yeah, it's added cost but will look better in the long run
73,kevinkc6pob

However, be careful with the CAT-5 you pick. Most of the cable you will find will not fair well in sunlight and most of it is solid conductor cable which will work harden and break pretty quick if it is handled much.

2184. Re: So no takers on a 65-foot tower climb?

Yahoo group: DAWG-HSMM
Date: 2011-06-27 21:34:25 UTC
From: wa3ite
Topic: 2154 Message: 2184

--- In DAWG-HSMM@yahoogroups.com, Bob Diepenbrock <kc4uai@...> wrote:
> If you are still interested, I may be able to help finding the enclosure and some antennas.

Still interested! Now's the time to do it, as I'll be too busy once the school year starts. Still need someone willing to do the climbing though.

2185. Netmeeting follow on?

Yahoo group: DAWG-HSMM
Date: 2011-06-29 00:37:25 UTC
From: kb1tce
Topic: 2185 Message: 2185

I joined this group some months ago and am plugging away learning the HSMM technology. I really like working with Netmeeting but it's been deprecated by MS and a couple of my friends only have Windows 7 laptops. One has tried Pidgin with Bonjour for Windows but it's only text. Everything else seems to need a server, generally in the vendor's cloud.

Is there anything else that folks have been looking at -- or has anyone been able to use Netmeeting on Win 7? (However, I think that the only download available is the older Win98-Win2k version, not the XP version.)

Thanks,
Steve KB1TCE

2186. RE: [DAWG-HSMM] Netmeeting follow on?

Yahoo group: DAWG-HSMM
Date: 2011-06-29 01:13:47 UTC
From: Dave
Topic: 2185 Message: 2186

Hi- You can run a small OpenFire server and Spark as a client, and you will have everything MS Netmeeting has. They are free and easy to run and simple to put in place on a LAN in an HSMM environment.

Dave
KA0SWT

-----Original Message-----
From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of kb1tce
Sent: Tuesday, June 28, 2011 18:37
To: DAWG-HSMM@yahoogroups.com
Subject: [DAWG-HSMM] Netmeeting follow on?

I joined this group some months ago and am plugging away learning the HSMM technology. I really like working with Netmeeting but it's been deprecated by MS and a couple of my friends only have Windows 7 laptops. One has tried Pidgin with Bonjour for Windows but it's only text. Everything else seems to need a server, generally in the vendor's cloud.

Is there anything else that folks have been looking at -- or has anyone been able to use Netmeeting on Win 7? (However, I think that the only download available is the older Win98-Win2k version, not the XP version.)

Thanks,
Steve KB1TCE

Yahoo! Groups Links

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1388 / Virus Database: 1516/3732 - Release Date: 06/28/11

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1388 / Virus Database: 1516/3732 - Release Date: 06/28/11

2187. Re: [DAWG-HSMM] Netmeeting follow on?

Yahoo group: DAWG-HSMM
Date: 2011-06-29 01:46:11 UTC
From: Josh Smith
Topic: 2185 Message: 2187

Check out any of the various jabber servers/clients.

On Tuesday, June 28, 2011, Dave <dave@...> wrote:
>
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>
> Hi- You can run a small OpenFire server and Spark as a client, and you will
> have everything MS Netmeeting has. They are free and easy to run and simple
> to put in place on a LAN in an HSMM environment.
>
> Dave
> KA0SWT
>
> -----Original Message-----
> From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf
> Of kb1tce
> Sent: Tuesday, June 28, 2011 18:37
> To: DAWG-HSMM@yahoogroups.com
> Subject: [DAWG-HSMM] Netmeeting follow on?
>
> I joined this group some months ago and am plugging away learning the HSMM
> technology. I really like working with Netmeeting but it's been deprecated
> by MS and a couple of my friends only have Windows 7 laptops. One has tried

> Pidgin with Bonjour for Windows but it's only text. Everything else seems to
> need a server, generally in the vendor's cloud.
>
> Is there anything else that folks have been looking at -- or has anyone been
> able to use Netmeeting on Win 7? (However, I think that the only download
> available is the older Win98-Win2k version, not the XP version.)
>
> Thanks,
> Steve KB1TCE
>
> ---
>
> Yahoo! Groups Links
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1388 / Virus Database: 1516/3732 - Release Date: 06/28/11
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--
Josh Smith
KD8HRX
email/jabber: juicewvu@...
phone: 304.237.9369(c)

2188. Re: Netmeeting follow on?

Yahoo group: DAWG-HSMM
Date: 2011-06-29 03:06:41 UTC
From: kb1tce
Topic: 2185 Message: 2188

Dave & Josh,

Thanks for the leads. Gosh - Openfire, Spark, Ignite, Tinder, Jabber....
Much appreciated.

Steve KB1TCE

--- In DAWG-HSMM@yahoogroups.com, "Dave" <dave@...> wrote:
>
> Hi- You can run a small OpenFire server and Spark as a client, and you will
> have everything MS Netmeeting has. They are free and easy to run and simple
> to put in place on a LAN in an HSMM environment.
>
> Dave
> KA0SWT

2189. Re: [DAWG-HSMM] Netmeeting follow on?

Yahoo group: DAWG-HSMM
Date: 2011-06-29 10:45:07 UTC
From: Steve
Topic: 2185 Message: 2189

Hi Dave,

In a quick look at Spark I didn't see any video capabilities.

Steve KB1TCE

On 6/28/2011 9:13 PM, Dave wrote:
>
>
> Hi- You can run a small OpenFire server and Spark as a client, and you
> will
> have everything MS Netmeeting has. They are free and easy to run and
> simple
> to put in place on a LAN in an HSMM environment.
>
> Dave
> KA0SWT
>
>

2190. Re: Netmeeting follow on?

Yahoo group: DAWG-HSMM
Date: 2011-06-29 15:31:35 UTC
From: WILLIAM H WALLACE
Topic: 2185 Message: 2190

Are the other netmeeting type servers windows systems? The reason people are looking at Netmeeting is that it runs under windows. Windows XP home and professional come with it on the systems disk as a service.

William H. Wallace

2191. Re: [DAWG-HSMM] Re: Netmeeting follow on?

Yahoo group: DAWG-HSMM
Date: 2011-06-29 16:26:16 UTC
From: Steve
Topic: 2185 Message: 2191

I like Netmeeting, just that Windows XP is the end of the line for it.

Openfire and Spark are Linux, Windows and Mac. From what I can glean
after a brief scan of their site is that Openfire/Spark don't have some
of the Netmeeting functions like streaming video and whiteboard.

Steve KB1TCE

On 6/29/2011 11:31 AM, WILLIAM H WALLACE wrote:
>
>
> *Are the other netmeeting type servers windows**systems? The reason
> people are looking at Netmeeting is that it runs under windows.
> Windows XP ho**me and professional come with it on the systems disk as
> a service.*
>
> William H. Wallace
>
>

2192. RE: [DAWG-HSMM] Re: Netmeeting follow on?

Yahoo group: DAWG-HSMM
Date: 2011-06-29 16:47:58 UTC
From: Dave
Topic: 2185 Message: 2192

Yes, they do have whiteboard and video. RED5 is the video app and the Whiteboard is included with Spark I think. I use them occasionally but not as often as I'd like.

Really nice stuff and I've used them with my small Creative webcam.

Dave

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Steve
Sent: Wednesday, June 29, 2011 10:26
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Re: Netmeeting follow on?

I like Netmeeting, just that Windows XP is the end of the line for it.

Openfire and Spark are Linux, Windows and Mac. From what I can glean after a brief scan of their site is that Openfire/Spark don't have some of the Netmeeting functions like streaming video and whiteboard.

Steve KB1TCE

On 6/29/2011 11:31 AM, WILLIAM H WALLACE wrote:

Are the other netmeeting type servers windows systems? The reason people are looking at Netmeeting is that it runs under windows. Windows XP home and professional come with it on the systems disk as a service.

William H. Wallace

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1388 / Virus Database: 1516/3733 - Release Date: 06/29/11

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1388 / Virus Database: 1516/3733 - Release Date: 06/29/11

2193. RE: [DAWG-HSMM] Netmeeting follow on?

Yahoo group: DAWG-HSMM
Date: 2011-06-29 16:59:54 UTC
From: Dave
Topic: 2185 Message: 2193

Answered in a previous email back to you. Try looking for RED5.

Dave

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Steve
Sent: Wednesday, June 29, 2011 04:45
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Netmeeting follow on?

Hi Dave,

In a quick look at Spark I didn't see any video capabilities.

Steve KB1TCE

On 6/28/2011 9:13 PM, Dave wrote:

Hi- You can run a small OpenFire server and Spark as a client, and you will have everything MS Netmeeting has. They are free and easy to run and simple to put in place on a LAN in an HSMM environment.

Dave
KA0SWT

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1388 / Virus Database: 1516/3732 - Release Date: 06/28/11

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1388 / Virus Database: 1516/3733 - Release Date: 06/29/11

2194. Re: [DAWG-HSMM] Re: Netmeeting follow on?

Yahoo group: DAWG-HSMM
Date: 2011-06-29 17:57:32 UTC
From: Steve
Topic: 2185 Message: 2194

Great info. One question - one of the docs on their site indicates (I think) that Spark can be used P2P with Spark w/o the server application. Is that the case?

I'll have a chance to play with the apps a little later on.

Steve KB1TCE

On 6/29/2011 12:47 PM, Dave wrote:
>
>
> Yes, they do have whiteboard and video. RED5 is the video app and the
> Whiteboard is included with Spark I think. I use them occasionally
> but not as often as I'd like.
>
> Really nice stuff and I've used them with my small Creative webcam.
>
> Dave
>
> ---
> *From:* DAWG-HSMM@yahoogroups.com
> [mailto:DAWG-HSMM@yahoogroups.com] *On Behalf Of *Steve
> *Sent:* Wednesday, June 29, 2011 10:26
> *To:* DAWG-HSMM@yahoogroups.com
> *Subject:* Re: [DAWG-HSMM] Re: Netmeeting follow on?
>
> I like Netmeeting, just that Windows XP is the end of the line for it.
>
> Openfire and Spark are Linux, Windows and Mac. From what I can
> glean after a brief scan of their site is that Openfire/Spark
> don't have some of the Netmeeting functions like streaming video
> and whiteboard.
>
> Steve KB1TCE
>
> On 6/29/2011 11:31 AM, WILLIAM H WALLACE wrote:
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>> *Are the other netmeeting type servers windows**systems? The
>> reason people are looking at Netmeeting is that it runs under
>> windows. Windows XP ho**me and professional come with it on the
>> systems disk as a service.*
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>>
> ---

>
> No virus found in this message.
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> 06/29/11
>
> ---
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> Version: 10.0.1388 / Virus Database: 1516/3733 - Release Date: 06/29/11
>
>

2195. RE: [DAWG-HSMM] Re: Netmeeting follow on?

Yahoo group: DAWG-HSMM
Date: 2011-06-29 18:05:09 UTC
From: Dave
Topic: 2185 Message: 2195

Not sure about that; I only used it with the server so I could connect in conference mode. I would think so, yes, as there's no reason why a P2P isn't possible. It's good stuff and stable. I used it in a similar situation of a closed LAN with P2P WiFi so I know it works hardwire and on the air. Good luck; I think this is the app we should be using for HSMM.

Dave

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Steve
Sent: Wednesday, June 29, 2011 11:58
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Re: Netmeeting follow on?

Great info. One question - one of the docs on their site indicates (I think) that Spark can be used P2P with Spark w/o the server application. Is that the case?

I'll have a chance to play with the apps a little later on.

Steve KB1TCE

On 6/29/2011 12:47 PM, Dave wrote:

Yes, they do have whiteboard and video. RED5 is the video app and the Whiteboard is included with Spark I think. I use them occasionally but not as often as I'd like.

Really nice stuff and I've used them with my small Creative webcam.

Dave

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Steve
Sent: Wednesday, June 29, 2011 10:26
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Re: Netmeeting follow on?

I like Netmeeting, just that Windows XP is the end of the line for it.

Openfire and Spark are Linux, Windows and Mac. From what I can glean after a brief scan of their site is that Openfire/Spark don't have some of the Netmeeting functions like streaming video and whiteboard.

Steve KB1TCE

On 6/29/2011 11:31 AM, WILLIAM H WALLACE wrote:

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William H. Wallace

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2196. Re: [DAWG-HSMM] Re: Netmeeting follow on?

Yahoo group: DAWG-HSMM
Date: 2011-06-29 19:16:06 UTC
From: Steve
Topic: 2185 Message: 2196

I got Spark downloaded and now their server is down for maintenance so
I'll have to wait a bit to get Openfire.

If it does do what it sounds like it does, then it would be a good
application for HSMM. Netmeeting, unfortunately, is one platform only
and is now 2 generations of MS Windows out of date.

Steve KB1TCE

On 6/29/2011 2:05 PM, Dave wrote:
>
>
> Not sure about that; I only used it with the server so I could connect
> in conference mode. I would think so, yes, as there's no reason why a
> P2P isn't possible. It's good stuff and stable. I used it in a similar
> situation of a closed LAN with P2P WiFi so I know it works hardwire
> and on the air. Good luck; I think this is the app we should be using
> for HSMM.
>
> Dave
>
>

2197. Fw: SK KD5TEC Gordon Keahey - killed by a "texter"

Yahoo group: DAWG-HSMM
Date: 2011-06-30 15:12:09 UTC
From: Patrick Soileau ND5C
Topic: 2197 Message: 2197

This is a perfect example of why the Texas State Legislators need to get off their collective butts and pass some form of bill which restricts these incredibly distracting activities while driving a motor vehicle.

Good and decent people are hurt on a daily basis by someone else's carelessness or for the sake of someone else's "convenience".

I don't think the "driving while distracted" law was perfect, but it sure seems like it needs to be re-thought, fine-tuned, and passed into law to give the police the ability to help stop stuff like this from happening.

From: Plano Amateur Radio Klub <webmaster@...>
Subject: SK KD5TEC Gordon Keahey
To: webmaster@...
Date: Thursday, June 30, 2011, 9:27 AM

It is my displeasure to make this announcement. Patriot Guard Rider and SKYWARN Spotter KD5TEX is now a silent key. While riding his motorcycle in Rockwall county he was hit head on by a person who swerved out of their lane while "texting". He leave behind one son and his ex-wife.

2198. 1776

Yahoo group: DAWG-HSMM
Date: 2011-06-30 19:30:11 UTC
From: Kipton Moravec
Topic: 2198 Message: 2198

Take a break from the heat and do something patriotic indoors. Come see the Musical 1776: Tale of the Continental Congress.

What is it about?

In the days leading up to July 4, 1776, Continental Congressmen John Adams and Benjamin Franklin coerce Thomas Jefferson into writing the declaration of Independence as a delaying tactic as they try to persuade the American colonies to support a resolution on independence. As George Washington sends depressing messages describing one military disaster after another, the businessmen, landowners and slave holders in Congress all stand in the way of the Declaration, and a single "nay" vote will forever end the question of independence. Large portions of spoken and sung dialog are taken directly from the letters and memoirs of the actual participants.

This is being produced at the Art Centre Theatre, 5220 Village Creek Dr., Plano, TX 75093 214-810-3ACT (3228). The theater is west of the intersection of Plano Parkway and Preston Rd. in Plano.

I will be playing the part of Cesar Rodney delegate from Delaware, and my wife, Delynda, will be playing the part of Abigail Adams. We do ot do very many shows together. And this is a good show for the whole family.

The Dates of the show are:

Friday, July 1 at 7:30 p.m.
Saturday, July 2 at 2:30 p.m. and 7:30 p.m
Sunday July 3 at 3:30 p.m.
Thursday July 7 at 7:30
Friday, July 8 at 7:30 p.m.
Saturday, July 9 at 2:30 p.m. and 7:30 p.m
Sunday July 10 at 3:30 p.m.

Click on the link to purchase tickets.

http://www.artcentretheatre.com/tickets/

Today, Thursday June 30, if you use the ticket code: 1776 you can purchase the tickets for $10. Otherwise they are $12 in advance and $15 at the door. When you order the tickets say you heard it from Kipton.

2199. DigiTuesday (Lucas, TX)

Yahoo group: DAWG-HSMM
Date: 2011-07-01 07:17:49 UTC
From: Rusty Haddock
Topic: 2199 Message: 2199

Since next Tueday is the 5th of July, right after the holiday, Kip and I decided that we'd cancel the Digital Tuesday meeting for that evening.

Please plan on coming to the DigiTuesday meeting on the 19th, third Tuesday of July. One thing we will discuss is whether the group would like to go to once-a-month meetings or keep with the twice a month schedule.

Also, what do YOU want to do? Do a little APRS, WinLink, or ????
Suggestions are welcome! Let us know.

Have a safe Independence Day!

73
-Rusty-
--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2200. Openfire Spark for HSMM

Yahoo group: DAWG-HSMM
Date: 2011-07-04 14:12:23 UTC
From: K0YR Thomas Rieff
Topic: 2200 Message: 2200

Thanks for the headsup on Openfire and Spark.
Have openfire installed on Ubuntu for testing.
Spark works as both a windows client and Ubuntu client.
Trying to work through the Red5/Redfire plugins.
This should be a simple way to use HSMM.
How are you going to implement Openfire on your HSMM system???
Now to just get HSMM going. Hi Hi.
Tom, K0YR

K0YR
Thomas Rieff
North Mankato, MN 56001
(507) 381-0660 Cell

2201. Re: Openfire Spark for HSMM

Yahoo group: DAWG-HSMM
Date: 2011-07-04 18:31:15 UTC
From: kb1tce
Topic: 2200 Message: 2201

Openfire and Spark filled an immediate need for us in terms of putting in place a non-cloud chat for coordinating our 80 meter digital training net. We use a 2 meter repeater but not everyone can get the repeater. It sits on the screen nicely with Fldigi and is easy to use. The folks on the net have a mix of Linux, Apple and Windows computers so it fits everyone.

Like you, we're trying to figure out how to apply it to HSMM. Not quite there yet so some pointers from those who have done it would be appreciated from this quarter too.

Steve KB1TCE

--- In DAWG-HSMM@yahoogroups.com, K0YR Thomas Rieff <k0yr@...> wrote:
>
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> Tom, K0YR
>
>
> K0YR
> Thomas Rieff
> North Mankato, MN 56001
> (507) 381-0660 Cell
>

2202. RE: [DAWG-HSMM] Openfire Spark for HSMM

Yahoo group: DAWG-HSMM
Date: 2011-07-04 21:05:28 UTC
From: Dave
Topic: 2200 Message: 2202

Red5 is a JAR; just place it in the Plugins dir and that's all. Select from File, Plugin and the option will self-identify in the Menu Bar. Really simple after a lot of work.

I took down my HSMM after I could find NO ONE interested. Tied up a bunch of my stuff so I could say I had one. Nobody interested means waste of equip (here) so best of luck to you. I does work and it is a grand idea. Wireless LAN; who woulda thunk?

Dave

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of K0YR Thomas Rieff
Sent: Monday, July 04, 2011 08:12
To: DAWG-HSMM@yahoogroups.com
Subject: [DAWG-HSMM] Openfire Spark for HSMM

Thanks for the headsup on Openfire and Spark.
Have openfire installed on Ubuntu for testing.
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Thomas Rieff
North Mankato, MN 56001
(507) 381-0660 Cell

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1388 / Virus Database: 1516/3742 - Release Date: 07/03/11

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1388 / Virus Database: 1516/3744 - Release Date: 07/04/11

2203. RE: [DAWG-HSMM] Openfire Spark for HSMM

Yahoo group: DAWG-HSMM
Date: 2011-07-04 21:58:28 UTC
From: shansen@belljar.net
Topic: 2200 Message: 2203

Here's one of the resources I found: http://code.google.com/p/redfire/

Right now it's just one other fellow and myself. We're at the pretty basic level: I have set up a simple ad hoc network between a laptop and netbook using Netgear wifi adapters. I've got Openfire and Spark functional on this set up. I just got a pair of $30 1 watt (30 dB) USB wifi adapters (with separable antennas) that we'll try for additional range with directional antennas. At the present we're just interested in point to point so no need to get into mesh networking at this time.

Steve KB1TCE

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> _____
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> From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On
> Behalf
> Of K0YR Thomas Rieff
> Sent: Monday, July 04, 2011 08:12
> To: DAWG-HSMM@yahoogroups.com
> Subject: [DAWG-HSMM] Openfire Spark for HSMM
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>
>

2204. RE: [DAWG-HSMM] Openfire Spark for HSMM

Yahoo group: DAWG-HSMM
Date: 2011-07-04 22:20:00 UTC
From: Dave
Topic: 2200 Message: 2204

Keep going... It will work over longer distances but fade may be a problem. I still think, despite the lack of interest here, that HSMM and the Openfire network together form a really nice, closed-loop ECOMM system with incredible potential. Eventually, it will go laser and then the real fun will start.

Dave
KA0SWT

-----Original Message-----
From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of shansen@...
Sent: Monday, July 04, 2011 15:58
To: DAWG-HSMM@yahoogroups.com
Subject: RE: [DAWG-HSMM] Openfire Spark for HSMM

Here's one of the resources I found: http://code.google.com/p/redfire/

Right now it's just one other fellow and myself. We're at the pretty basic level: I have set up a simple ad hoc network between a laptop and netbook using Netgear wifi adapters. I've got Openfire and Spark functional on this set up. I just got a pair of $30 1 watt (30 dB) USB wifi adapters (with separable antennas) that we'll try for additional range with directional antennas. At the present we're just interested in point to point so no need to get into mesh networking at this time.

Steve KB1TCE

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> Wireless
> LAN; who woulda thunk?
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> Dave
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> From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On
> Behalf Of K0YR Thomas Rieff

> Sent: Monday, July 04, 2011 08:12
> To: DAWG-HSMM@yahoogroups.com
> Subject: [DAWG-HSMM] Openfire Spark for HSMM
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Yahoo! Groups Links

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Version: 10.0.1388 / Virus Database: 1516/3744 - Release Date: 07/04/11

2205. Re: [DAWG-HSMM] Openfire Spark for HSMM

Yahoo group: DAWG-HSMM
Date: 2011-07-04 22:21:40 UTC
From: Floyd Rodgers
Topic: 2200 Message: 2205

so where is here Dave?

2206. RE: [Bulk] RE: [DAWG-HSMM] Openfire Spark for HSMM

Yahoo group: DAWG-HSMM
Date: 2011-07-04 22:46:02 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2200 Message: 2206

Dave et al,

I loaded up Openfire for Windows on my XP/Pro laptop and created an administrator account and password.

I used the local database option when setting it up as I don't have a server. I was all set to install it on another laptop on my LAN when I noticed that I could not log into my administrator account. What might I be doing wrong?

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Dave
Sent: Monday, July 04, 2011 10:20 PM
To: DAWG-HSMM@yahoogroups.com
Subject: [Bulk] RE: [DAWG-HSMM] Openfire Spark for HSMM

Keep going... It will work over longer distances but fade may be a problem. I still think, despite the lack of interest here, that HSMM and the Openfire network together form a really nice, closed-loop ECOMM system with incredible potential. Eventually, it will go laser and then the real fun will start.

Dave
KA0SWT

_____ Information from ESET Smart Security, version of virus signature database 6265 (20110704) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 6265 (20110704) _____

The message was checked by ESET Smart Security.

http://www.eset.com

2207. RE: [DAWG-HSMM] Openfire Spark for HSMM

Yahoo group: DAWG-HSMM
Date: 2011-07-04 23:35:11 UTC
From: shansen@belljar.net
Topic: 2200 Message: 2207

Dave,

Well, at first I was despondent when I found out that Netmeeting was obsolete after I got it to work but Openfire/Spark is quickly growing on me. I think that there might be some interest around here for emcomm use also. We'll see. Good stuff.

Steve KB1TCE

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> problem.
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>> From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On
>> Behalf Of K0YR Thomas Rieff
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>> To: DAWG-HSMM@yahoogroups.com
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>> Checked by AVG - www.avg.com
>> Version: 10.0.1388 / Virus Database: 1516/3744 - Release Date:
>> 07/04/11
>>
>>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1388 / Virus Database: 1516/3744 - Release Date: 07/04/11
> -----
> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 10.0.1388 / Virus Database: 1516/3744 - Release Date: 07/04/11
>
>

2208. RE: [Bulk] RE: [DAWG-HSMM] Openfire Spark for HSMM

Yahoo group: DAWG-HSMM
Date: 2011-07-04 23:38:52 UTC
From: shansen@belljar.net
Topic: 2200 Message: 2208

I got confused when it asked me for email address and then password. I couldn't log on until I used "admin" as the username.

For internet use I opened all of the indicated ports on my router and used DYNDNS to enable internet access.

Steve KB1TCE

> Dave et al,
>
> I loaded up Openfire for Windows on my XP/Pro laptop and created an
> administrator account and password.
>
> I used the local database option when setting it up as I don't have a
> server. I was all set to install it on another laptop on my LAN when I
> noticed that I could not log into my administrator account. What might I
> be
> doing wrong?
>
>
>
> Thanks & 73,
>
> Gordon Beattie, W2TTT
>
> 201.314.6964
>
> -----
>
> From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On
> Behalf
> Of Dave
> Sent: Monday, July 04, 2011 10:20 PM
> To: DAWG-HSMM@yahoogroups.com
> Subject: [Bulk] RE: [DAWG-HSMM] Openfire Spark for HSMM
>
>
>
>
>
> Keep going... It will work over longer distances but fade may be a
> problem.
> I still think, despite the lack of interest here, that HSMM and the
> Openfire
> network together form a really nice, closed-loop ECOMM system with
> incredible potential. Eventually, it will go laser and then the real fun

> will start.
>
> Dave
> KA0SWT
>
>
>
>
> _____ Information from ESET Smart Security, version of virus
> signature
> database 6265 (20110704) _____
>
>
> The message was checked by ESET Smart Security.
>
>
> http://www.eset.com
>
>
>
> _____ Information from ESET Smart Security, version of virus
> signature
> database 6265 (20110704) _____
>
> The message was checked by ESET Smart Security.
>
> http://www.eset.com
>
>

2209. Re: [DAWG-HSMM] DigiTuesday (Lucas, TX)

Yahoo group: DAWG-HSMM
Date: 2011-07-04 23:49:18 UTC
From: John Galvin
Topic: 2199 Message: 2209

Ler's talk bout how to use Mesh for EmCom applications.
- -
John Galvin - N5TIM
jrgalvin2@...
www.n5tim.info - For Public Service & EmCom Information

*JUNK *- /Stuff/ we throw away ... *STUFF* - /junk/ we keep.

On 7/1/2011 02:17, Rusty Haddock wrote:
>
> Since next Tueday is the 5th of July, right after the holiday, Kip and
> I decided that we'd cancel the Digital Tuesday meeting for that evening.
>
> Please plan on coming to the DigiTuesday meeting on the 19th, third
> Tuesday of July. One thing we will discuss is whether the group would
> like to go to once-a-month meetings or keep with the twice a month
> schedule.
>
> Also, what do YOU want to do? Do a little APRS, WinLink, or ????
> Suggestions are welcome! Let us know.
>
> Have a safe Independence Day!
>
> 73
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>
>

2210. Re: [DAWG-HSMM] Openfire Spark for HSMM

Yahoo group: DAWG-HSMM
Date: 2011-07-04 23:57:48 UTC
From: Josh Mercer
Topic: 2200 Message: 2210

I think its hard to get people very interested over such a short range with the Linksys routers. When you go from 10's or hundreds of miles to single digit miles, it becomes a little less interesting. I think it has great potential and am still interested in it, but I think that the Linksys routers are only a good way to get familiar with the protocols and operation of the firmware, but that it is just too low powered for any practical use. I know several people are looking at using the Ubiquiti Bullets and some other hardware which is much higher powered, and once those become a little easier to load the firmware and more people using them, it will be more practical. I personally am saving up to get some Ubiquiti router stations and some Xagyl 440 Mhz cards (when they become available) and some Ubiquiti 2 GHz cards. They are higher powered and provide more potential than the 17dbm Linksys.

I also have several 250 mw, 500 mw and 1w amplifiers that I could use, but if everyone else is using such low powered devices on the other end of the link, it just doesnt do much good...

de ke5fco

On 7/4/2011 4:05 PM, Dave wrote:
>
> Red5 is a JAR; just place it in the Plugins dir and that's all. Select
> from File, Plugin and the option will self-identify in the Menu Bar.
> Really simple after a lot of work.
> I took down my HSMM after I could find NO ONE interested. Tied up a
> bunch of my stuff so I could say I had one. Nobody interested means
> waste of equip (here) so best of luck to you. I does work and it is a
> grand idea. Wireless LAN; who woulda thunk?
> Dave
>
> ---
> *From:* DAWG-HSMM@yahoogroups.com
> [mailto:DAWG-HSMM@yahoogroups.com] *On Behalf Of *K0YR Thomas Rieff
> *Sent:* Monday, July 04, 2011 08:12
> *To:* DAWG-HSMM@yahoogroups.com
> *Subject:* [DAWG-HSMM] Openfire Spark for HSMM
>
> Thanks for the headsup on Openfire and Spark.
> Have openfire installed on Ubuntu for testing.
> Spark works as both a windows client and Ubuntu client.
> Trying to work through the Red5/Redfire plugins.
> This should be a simple way to use HSMM.
> How are you going to implement Openfire on your HSMM system???
> Now to just get HSMM going. Hi Hi.
> Tom, K0YR

>
> K0YR
> Thomas Rieff
> North Mankato, MN 56001
> (507) 381-0660 Cell
>
>
> ----------
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 10.0.1388 / Virus Database: 1516/3742 - Release Date:
> 07/03/11
>
> ----------
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 10.0.1388 / Virus Database: 1516/3744 - Release Date: 07/04/11
>
>

2211. Re: [DAWG-HSMM] Openfire Spark for HSMM

Yahoo group: DAWG-HSMM
Date: 2011-07-05 00:15:52 UTC
From: Steve
Topic: 2200 Message: 2211

I have a couple of Ubiquiti Picostation 2HPs (30 dB) plus a pair of the horribly named Vagi antennas. So far I haven't gotten them to do anything except ping each other. That says more about my wireless networking skills than anything else. The nice thing is that the antennas will work with the 30 dB adapters I just got and those will work in a point to point ad hoc network. Once I get Red5 working we're going to a large open field to see how things go.

Steve KB1TCE

On 7/4/2011 7:57 PM, Josh Mercer wrote:
>
>
> I think its hard to get people very interested over such a short range
> with the Linksys routers. When you go from 10's or hundreds of miles
> to single digit miles, it becomes a little less interesting. I think
> it has great potential and am still interested in it, but I think that
> the Linksys routers are only a good way to get familiar with the
> protocols and operation of the firmware, but that it is just too low
> powered for any practical use. I know several people are looking at
> using the Ubiquiti Bullets and some other hardware which is much
> higher powered, and once those become a little easier to load the
> firmware and more people using them, it will be more practical. I
> personally am saving up to get some Ubiquiti router stations and some
> Xagyl 440 Mhz cards (when they become available) and some Ubiquiti 2
> GHz cards. They are higher powered and provide more potential than the
> 17dbm Linksys.
>
> I also have several 250 mw, 500 mw and 1w amplifiers that I could use,
> but if everyone else is using such low powered devices on the other
> end of the link, it just doesnt do much good...
>
> de ke5fco
>
> On 7/4/2011 4:05 PM, Dave wrote:
>
>>
>>
>> Red5 is a JAR; just place it in the Plugins dir and that's all.
>> Select from File, Plugin and the option will self-identify in the
>> Menu Bar. Really simple after a lot of work.
>>
>> I took down my HSMM after I could find NO ONE interested. Tied up a
>> bunch of my stuff so I could say I had one. Nobody interested means
>> waste of equip (here) so best of luck to you. I does work and it is a

>> grand idea. Wireless LAN; who woulda thunk?
>>
>> Dave
>>
>> ---
>> *From:* DAWG-HSMM@yahoogroups.com
>> [mailto:DAWG-HSMM@yahoogroups.com] *On Behalf Of *K0YR Thomas Rieff
>> *Sent:* Monday, July 04, 2011 08:12
>> *To:* DAWG-HSMM@yahoogroups.com
>> *Subject:* [DAWG-HSMM] Openfire Spark for HSMM
>>
>> Thanks for the headsup on Openfire and Spark.
>> Have openfire installed on Ubuntu for testing.
>> Spark works as both a windows client and Ubuntu client.
>> Trying to work through the Red5/Redfire plugins.
>> This should be a simple way to use HSMM.
>> How are you going to implement Openfire on your HSMM system???
>> Now to just get HSMM going. Hi Hi.
>> Tom, K0YR
>>
>> K0YR
>> Thomas Rieff
>> North Mankato, MN 56001
>> (507) 381-0660 Cell
>>
>>
>> ---
>>
>> No virus found in this message.
>> Checked by AVG - www.avg.com <http://www.avg.com>
>> Version: 10.0.1388 / Virus Database: 1516/3742 - Release Date:
>> 07/03/11
>>
>> ---
>>
>> No virus found in this message.
>> Checked by AVG - www.avg.com <http://www.avg.com>
>> Version: 10.0.1388 / Virus Database: 1516/3744 - Release Date: 07/04/11
>>
>

2212. RE: [Bulk] RE: [DAWG-HSMM] Openfire Spark for HSMM

Yahoo group: DAWG-HSMM
Date: 2011-07-05 01:52:18 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2200 Message: 2212

Steve,

Thanks for the suggestion.I tried "admin" with and without my password, and
got the page not found on my browser when trying to access:
http://127.0.0.1:9090/login.jsp

Any more thoughts?

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf
Of shansen@...
Sent: Monday, July 04, 2011 11:39 PM
To: DAWG-HSMM@yahoogroups.com
Subject: RE: [Bulk] RE: [DAWG-HSMM] Openfire Spark for HSMM

I got confused when it asked me for email address and then password. I
couldn't log on until I used "admin" as the username.

For internet use I opened all of the indicated ports on my router and used
DYNDNS to enable internet access.

Steve KB1TCE

> Dave et al,
>
> I loaded up Openfire for Windows on my XP/Pro laptop and created an
> administrator account and password.
>
> I used the local database option when setting it up as I don't have a
> server. I was all set to install it on another laptop on my LAN when I
> noticed that I could not log into my administrator account. What might I
> be
> doing wrong?
>
>
>
> Thanks & 73,
>
> Gordon Beattie, W2TTT
>
> 201.314.6964

>
> _____
>
> From: DAWG-HSMM@yahoogroups.com <mailto:DAWG-HSMM%40yahoogroups.com>
[mailto:DAWG-HSMM@yahoogroups.com <mailto:DAWG-HSMM%40yahoogroups.com>] On
> Behalf
> Of Dave
> Sent: Monday, July 04, 2011 10:20 PM
> To: DAWG-HSMM@yahoogroups.com <mailto:DAWG-HSMM%40yahoogroups.com>
> Subject: [Bulk] RE: [DAWG-HSMM] Openfire Spark for HSMM
>
>
>
>
>
> Keep going... It will work over longer distances but fade may be a
> problem.
> I still think, despite the lack of interest here, that HSMM and the
> Openfire
> network together form a really nice, closed-loop ECOMM system with
> incredible potential. Eventually, it will go laser and then the real fun
> will start.
>
> Dave
> KA0SWT
>
>
>
>
> _____ Information from ESET Smart Security, version of virus
> signature
> database 6265 (20110704) _____
>
>
> The message was checked by ESET Smart Security.
>
>
> http://www.eset.com
>
>
>
> _____ Information from ESET Smart Security, version of virus
> signature
> database 6265 (20110704) _____
>
> The message was checked by ESET Smart Security.
>
> http://www.eset.com
>
>

_____ Information from ESET Smart Security, version of virus signature database 6265 (20110704) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 6265 (20110704) _____

The message was checked by ESET Smart Security.

http://www.eset.com

2213. Re: [Bulk] RE: [DAWG-HSMM] Openfire Spark for HSMM

Yahoo group: DAWG-HSMM
Date: 2011-07-05 07:23:25 UTC
From: Dan Zubey
Topic: 2200 Message: 2213

I've used openfire here locally with mesh over packet radio. We have had some good results so far. I've personally been using it for almost a year now.

If I remember correctly, an older version of openfire had a problem that login wouldn't work until it was restarted. Try that, and make sure you're using version 3.7.0 or greater.

Regards,

-Dan n7nmd

On Jul 4, 2011, at 18:52, "J.Gordon Beattie, Jr., W2TTT" <w2ttt@...> wrote:

>
>
> Steve,
>
> Thanks for the suggestion…I tried “admin” with and without my password, and got the page not found on my browser when trying to access: http://127.0.0.1:9090/login.jsp
>
>
>
> Any more thoughts?
>
>
>
> Thanks & 73,
> Gordon Beattie, W2TTT
> 201.314.6964
> From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of shansen@...
> Sent: Monday, July 04, 2011 11:39 PM
> To: DAWG-HSMM@yahoogroups.com
> Subject: RE: [Bulk] RE: [DAWG-HSMM] Openfire Spark for HSMM
>
>
>
>
>
>
> I got confused when it asked me for email address and then password. I
> couldn't log on until I used "admin" as the username.
>
> For internet use I opened all of the indicated ports on my router and used
> DYNDNS to enable internet access.

>
> Steve KB1TCE
>
> > Dave et al,
> >
> > I loaded up Openfire for Windows on my XP/Pro laptop and created an
> > administrator account and password.
> >
> > I used the local database option when setting it up as I don't have a
> > server. I was all set to install it on another laptop on my LAN when I
> > noticed that I could not log into my administrator account. What might I
> > be
> > doing wrong?
> >
> >
> >
> > Thanks & 73,
> >
> > Gordon Beattie, W2TTT
> >
> > 201.314.6964
> >
> > _____
> >
> > From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On
> > Behalf
> > Of Dave
> > Sent: Monday, July 04, 2011 10:20 PM
> > To: DAWG-HSMM@yahoogroups.com
> > Subject: [Bulk] RE: [DAWG-HSMM] Openfire Spark for HSMM
> >
> >
> >
> >
> >
> > Keep going... It will work over longer distances but fade may be a
> > problem.
> > I still think, despite the lack of interest here, that HSMM and the
> > Openfire
> > network together form a really nice, closed-loop ECOMM system with
> > incredible potential. Eventually, it will go laser and then the real fun
> > will start.
> >
> > Dave
> > KA0SWT
> >
> >
> >
> >
> > _____ Information from ESET Smart Security, version of virus

> > signature
> > database 6265 (20110704) __________
> >
> >
> > The message was checked by ESET Smart Security.
> >
> >
> > http://www.eset.com
> >
> >
> >
> > __________ Information from ESET Smart Security, version of virus
> > signature
> > database 6265 (20110704) __________
> >
> > The message was checked by ESET Smart Security.
> >
> > http://www.eset.com
> >
> >
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>
> __________ Information from ESET Smart Security, version of virus signature database 6265
(20110704) __________
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>
> The message was checked by ESET Smart Security.
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> http://www.eset.com
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>
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(20110704) __________
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>
> http://www.eset.com
>

2214. Re: [Bulk] RE: [DAWG-HSMM] Openfire Spark for HSMM

Yahoo group: DAWG-HSMM
Date: 2011-07-05 11:42:30 UTC
From: kb1tce
Topic: 2200 Message: 2214

Try closing it and then reopening from your programs directory. You'll get a splash screen. Click on Launch Admin and then enter admin and your password.

Steve, KB1TCE

--- In DAWG-HSMM@yahoogroups.com, "J.Gordon Beattie, Jr., W2TTT" <w2ttt@...> wrote:
>
> Steve,
>
> Thanks for the suggestion.I tried "admin" with and without my password, and
> got the page not found on my browser when trying to access:
> http://127.0.0.1:9090/login.jsp
>
>
>
> Any more thoughts?
>
>
>
> Thanks & 73,
>
> Gordon Beattie, W2TTT
>
> 201.314.6964
>
> _____
>
> From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf
> Of shansen@...
> Sent: Monday, July 04, 2011 11:39 PM
> To: DAWG-HSMM@yahoogroups.com
> Subject: RE: [Bulk] RE: [DAWG-HSMM] Openfire Spark for HSMM
>
>
>
>
>
>
>
> I got confused when it asked me for email address and then password. I
> couldn't log on until I used "admin" as the username.
>
> For internet use I opened all of the indicated ports on my router and used
> DYNDNS to enable internet access.
>
> Steve KB1TCE

>
> > Dave et al,
> >
> > I loaded up Openfire for Windows on my XP/Pro laptop and created an
> > administrator account and password.
> >
> > I used the local database option when setting it up as I don't have a
> > server. I was all set to install it on another laptop on my LAN when I
> > noticed that I could not log into my administrator account. What might I
> > be
> > doing wrong?
> >
> >
> >
> > Thanks & 73,
> >
> > Gordon Beattie, W2TTT
> >
> > 201.314.6964
> >
> > _____
> >
> > From: DAWG-HSMM@yahoogroups.com <mailto:DAWG-HSMM%40yahoogroups.com>
> [mailto:DAWG-HSMM@yahoogroups.com <mailto:DAWG-HSMM%40yahoogroups.com>] On
> > Behalf
> > Of Dave
> > Sent: Monday, July 04, 2011 10:20 PM
> > To: DAWG-HSMM@yahoogroups.com <mailto:DAWG-HSMM%40yahoogroups.com>
> > Subject: [Bulk] RE: [DAWG-HSMM] Openfire Spark for HSMM
> >
> >
> >
> >
> >
> > Keep going... It will work over longer distances but fade may be a
> > problem.
> > I still think, despite the lack of interest here, that HSMM and the
> > Openfire
> > network together form a really nice, closed-loop ECOMM system with
> > incredible potential. Eventually, it will go laser and then the real fun
> > will start.
> >
> > Dave
> > KA0SWT
> >
> >
> >
> >
> > _____ Information from ESET Smart Security, version of virus
> > signature

> > database 6265 (20110704) __________
> >
> >
> > The message was checked by ESET Smart Security.
> >
> >
> > http://www.eset.com
> >
> >
> >
> > __________ Information from ESET Smart Security, version of virus
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> > http://www.eset.com
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>
> __________ Information from ESET Smart Security, version of virus signature
> database 6265 (20110704) __________
>
>
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>
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> http://www.eset.com
>
>
>
> __________ Information from ESET Smart Security, version of virus signature
> database 6265 (20110704) __________
>
> The message was checked by ESET Smart Security.
>
> http://www.eset.com
>

2215. No Digital Tuesday Today

Yahoo group: DAWG-HSMM
Date: 2011-07-05 13:00:56 UTC
From: Kipton Moravec
Topic: 2215 Message: 2215

Reminder. No Digital Tuesday this week.

We will be back at same time same location on July 19.

Kip

2216. Re: [DAWG-HSMM] No Digital Tuesday Today

Yahoo group: DAWG-HSMM
Date: 2011-07-05 14:44:14 UTC
From: Jimmy Dominguez
Topic: 2215 Message: 2216

Kip,
On a totally different subject, Trudy and I really enjoyed 1776 Saturday evening !
As it happens we watched 1776 on 'THIS' Monday afternoon and were very pleased to see how closely the efforts of the cast matched the movie !

Thanks for giving us the opportunity to see the play !!

Jimmy
KE5PEQ

On Tue, Jul 5, 2011 at 8:00 AM, Kipton Moravec <kip@...> wrote:

> **
>
>
> Reminder. No Digital Tuesday this week.
>
> We will be back at same time same location on July 19.
>
> Kip
>
>
>

2217. HSMM-MESH???

Yahoo group: DAWG-HSMM
Date: 2011-07-05 23:45:33 UTC
From: K0YR Thomas Rieff
Topic: 2217 Message: 2217

DAWG...
I am trying to get my hands around hsmm mesh.
Is this a variant of something???
I have seen the following tossed around as mesh firmware...
hsmm mesh
open wrt
dd wrt
open mesh
olsr
air os
Given the cost of units linksys and/or Ubiquiti bullets, it would seem the the best value is the bullets. I had a conversation today with an IT person in town that mentioned that he just ordered some bullets for 5.8 in their private network. Maybe I am making more out this that I should. If I decide to got the bullet route, and I already have had one for a year. Maybe I do not really need to changed the firmware and just use it as is.
Just thinking out loud.
Thanks in advance.
Tom, K0YR

K0YR
Thomas Rieff
North Mankato, MN 56001
(507) 381-0660 Cell

2218. Re: [DAWG-HSMM] HSMM-MESH???

Yahoo group: DAWG-HSMM
Date: 2011-07-06 00:13:04 UTC
From: Glenn Currie
Topic: 2217 Message: 2218

Greetings,

If you check this link, it will give you an idea of the intended use for HSMM-MESH.

<http://www.hsmm-mesh.org/documentation/67-hsmm-mesh-design-philosophy.html>

There may also be other documents on the hsmm-mesh.org web page you might find useful.

73's

-Glenn
KD5MFW

--- On Tue, 7/5/11, K0YR Thomas Rieff <k0yr@...> wrote:

From: K0YR Thomas Rieff <k0yr@...>
Subject: [DAWG-HSMM] HSMM-MESH???
To: dawg-hsmm@yahoogroups.com
Date: Tuesday, July 5, 2011, 6:45 PM

DAWG...
I am trying to get my hands around hsmm mesh.
Is this a variant of something???
I have seen the following tossed around as mesh firmware...
hsmm mesh
open wrt
dd wrt
open mesh
olsr
air os
Given the cost of units linksys and/or Ubiquiti bullets, it would seem the the best value is the bullets. I had a conversation today with an IT person in town that mentioned that he just ordered some bullets for 5.8 in their private network. Maybe I am making more out this that I should. If I decide to got the bullet route, and I already have had one for a year. Maybe I do not really need to changed the firmware and just use it as is.
Just thinking out loud.
Thanks in advance.
Tom, K0YR

K0YR
Thomas Rieff
North Mankato, MN 56001
(507) 381-0660 Cell

2219. Re: Openfire Spark for HSMM

Yahoo group: DAWG-HSMM
Date: 2011-07-06 13:45:49 UTC
From: WILLIAM H WALLACE
Topic: 2200 Message: 2219

What is going to be the bandwidth load on running video with something like spark over HSMM-MESHT ? How many video participants could I have on a conference video and still run e-mail, etc.

William H. Wallace
KC0TGY
1863 Sonny Dr.
Arnold, Mo. 63010
314-630-7796

2220. Flag pole car mounts

Yahoo group: DAWG-HSMM
Date: 2011-07-08 18:32:54 UTC
From: Todd Caldwell
Topic: 2220 Message: 2220

I recall us discussing - perhaps at HamCom - that there might be interest in putting together a group order for the park-a-car-on-it sort of flagpole/mast bases that several in the group have.

Specifically, this is the mount in question:
http://www.united-states-flag.com/flag-pole-car-stand.html#

I've polled the Mesquite group and we have more than the 6 units required to get the $23 price already.

Is there interest in this group (DFW local only) still ?

If so, perhaps we can coordinate.

73's

Todd Caldwell - K5SLR
Mesquite, TX

2221. RE: [DAWG-HSMM] Flag pole car mounts

Yahoo group: DAWG-HSMM
Date: 2011-07-08 19:12:59 UTC
From: Brady Pamplin
Topic: 2220 Message: 2221

I would like one. Let me know the amount and I will send a check or PayPal.

Harbor Freight has the flagpoles on sale.
http://www.harborfreight.com/catalogsearch/result?q=flagpole

Thanks,

Brady

To: DAWG-HSMM@yahoogroups.com
From: tmCaldwell@...
Date: Fri, 8 Jul 2011 13:32:54 -0500
Subject: [DAWG-HSMM] Flag pole car mounts

I recall us discussing - perhaps at HamCom - that there might be

interest in putting together a group order for the park-a-car-on-it sort

of flagpole/mast bases that several in the group have.

Specifically, this is the mount in question:

http://www.united-states-flag.com/flag-pole-car-stand.html#

I've polled the Mesquite group and we have more than the 6 units

required to get the $23 price already.

Is there interest in this group (DFW local only) still ?

If so, perhaps we can coordinate.

73's

Todd Caldwell - K5SLR

Mesquite, TX

2222. Flagpole Mount

Yahoo group: DAWG-HSMM
Date: 2011-07-09 18:23:15 UTC
From: James C. Duram
Topic: 2222 Message: 2222

Is the mount made of plastic or metal? Can't seem to locate any specs on the website.

Jim, K8COP

2223. Re: Flag pole car mounts

Yahoo group: DAWG-HSMM
Date: 2011-07-09 18:29:14 UTC
From: k5srt
Topic: 2220 Message: 2223

Todd,

I'd like to get one and possibly a couple of people from the Rockwell Collins Amature Radio club in Richardson TX have been talking about getting the bases and then the poles (I could check with them).

I used one during the Wild Ride (Thanks Doug) and it worked great (has been returned).

If you need to place the order soon just get me two. Please let me know how the price and shipping works out. When do you think you might order?

, 73

S. Ross Terry - McKinney TX
K5SRT@...
Ross@...

--- In DAWG-HSMM@yahoogroups.com, Todd Caldwell <tmCaldwell@...> wrote:
>
> I recall us discussing - perhaps at HamCom - that there might be
> interest in putting together a group order for the park-a-car-on-it sort
> of flagpole/mast bases that several in the group have.
>
> Specifically, this is the mount in question:
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> Is there interest in this group (DFW local only) still ?
>
> If so, perhaps we can coordinate.
>
> 73's
>
> Todd Caldwell - K5SLR
> Mesquite, TX
>

2224. Re: [DAWG-HSMM] Flagpole Mount

Yahoo group: DAWG-HSMM
Date: 2011-07-09 18:47:28 UTC
From: Kilgore
Topic: 2222 Message: 2224

It's a durable grey plastic.

Doug KD5OUG

On 7/9/2011 1:23 PM, James C. Duram wrote:

Is the mount made of plastic or metal? Can't seem to locate any specs on the website.

Jim, K8COP

2225. Re: Openfire Spark for HSMM (Redfire Plug In)

Yahoo group: DAWG-HSMM
Date: 2011-07-11 13:22:24 UTC
From: kb1tce
Topic: 2200 Message: 2225

From the Ignite Realtime site I gather that the now preferred plug in for audio/video is Redfire. I've tried it but can't get it to work. According to instructions, such as they are (scattered across various forum strings), I installed the redfire.war file in the Openfire server plug in folder and the redfire-plugin.jar in my Spark plug in folder.

The .war file seems to have done its thing properly in Openfire although it does not show up on the list of installed plug ins. In Spark I get the icons for audio/video and screen share.

I haven't tried the A/V yet but have tried the screen share. When initiating the session I see the request to accept/reject the share but then when I accept I see a new page with HTTP Error 404: Problem accessing /redfire/screen/screenviewer.html. Reason: Not Found

I am doing this with two XP Pro machines.

Just wondering if anyone has gotten this to work and, if so, how.

I have gotten all of the text chat features and the whiteboard plug in to work.

Steve, KB1TCE

--- In DAWG-HSMM@yahoogroups.com, "Dave" <dave@...> wrote:
>
> Red5 is a JAR; just place it in the Plugins dir and that's all. Select from
> File, Plugin and the option will self-identify in the Menu Bar. Really
> simple after a lot of work.
>
> I took down my HSMM after I could find NO ONE interested. Tied up a bunch
> of my stuff so I could say I had one. Nobody interested means waste of equip
> (here) so best of luck to you. I does work and it is a grand idea. Wireless
> LAN; who woulda thunk?
>
> Dave
>
>
> _____
>
> From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf
> Of K0YR Thomas Rieff
> Sent: Monday, July 04, 2011 08:12
> To: DAWG-HSMM@yahoogroups.com
> Subject: [DAWG-HSMM] Openfire Spark for HSMM
>
>
>
>
> Thanks for the headsup on Openfire and Spark.

> Have openfire installed on Ubuntu for testing.
> Spark works as both a windows client and Ubuntu client.
> Trying to work through the Red5/Redfire plugins.
> This should be a simple way to use HSMM.
> How are you going to implement Openfire on your HSMM system???
> Now to just get HSMM going. Hi Hi.
> Tom, K0YR
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> K0YR
> Thomas Rieff
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> (507) 381-0660 Cell
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> Version: 10.0.1388 / Virus Database: 1516/3744 - Release Date: 07/04/11
>

2226. RE: [DAWG-HSMM] Re: Openfire Spark for HSMM (Redfire Plug In)

Yahoo group: DAWG-HSMM
Date: 2011-07-12 01:05:45 UTC
From: Dave
Topic: 2200 Message: 2226

It's weird, but the WAR is supposed to be a JAR file. I think the download program changes the extension. Change it to JAR and see if that works. I think that's what I did.

Dave

-----Original Message-----
From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of kb1tce
Sent: Monday, July 11, 2011 07:22
To: DAWG-HSMM@yahoogroups.com
Subject: [DAWG-HSMM] Re: Openfire Spark for HSMM (Redfire Plug In)

From the Ignite Realtime site I gather that the now preferred plug in for audio/video is Redfire. I've tried it but can't get it to work. According to instructions, such as they are (scattered across various forum strings), I installed the redfire.war file in the Openfire server plug in folder and the redfire-plugin.jar in my Spark plug in folder.

The .war file seems to have done its thing properly in Openfire although it does not show up on the list of installed plug ins. In Spark I get the icons for audio/video and screen share.

I haven't tried the A/V yet but have tried the screen share. When initiating the session I see the request to accept/reject the share but then when I accept I see a new page with HTTP Error 404: Problem accessing /redfire/screen/screenviewer.html. Reason: Not Found

I am doing this with two XP Pro machines.

Just wondering if anyone has gotten this to work and, if so, how.

I have gotten all of the text chat features and the whiteboard plug in to work.

Steve, KB1TCE

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> Really simple after a lot of work.
>
> I took down my HSMM after I could find NO ONE interested. Tied up a
> bunch of my stuff so I could say I had one. Nobody interested means
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> (here) so best of luck to you. I does work and it is a grand idea.

> Wireless LAN; who woulda thunk?
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> Behalf Of K0YR Thomas Rieff
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> To: DAWG-HSMM@yahoogroups.com
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Yahoo! Groups Links

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1388 / Virus Database: 1516/3757 - Release Date: 07/10/11

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1390 / Virus Database: 1516/3759 - Release Date: 07/11/11

2227. RE: [DAWG-HSMM] Re: Openfire Spark for HSMM (Redfire Plug In)

Yahoo group: DAWG-HSMM
Date: 2011-07-12 01:34:38 UTC
From: shansen@belljar.net
Topic: 2200 Message: 2227

I confirmed with the programmer that the war file goes into Openfire. He did look at my error logs and it appears that I got the wrong rev war file. There's one for Openfire 3.7.0 and higher and another one for earlier revs of Openfire. It looks like I installed the wrong one. I'll find out tomorrow.

Redfire (the new plug in that replaces Red5) is more tightly integrated with Openfire from what I can gather which should (at least if you get the right files) be easier to install.

Assuming that I get it all running, my only issue is that the Ignite Realtime site is a bit confusing with a lot of the instructions being fragmented and having to search around for the various downloads.

Once I work my way through it I'll make up a simple set of instructions. I do like the app and I'm trying to learn something about XMPP.

Steve KB1TCE

> It's weird, but the WAR is supposed to be a JAR file. I think the download
> program changes the extension. Change it to JAR and see if that works. I
> think that's what I did.
>
> Dave
>
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> -----Original Message-----
> From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On
> Behalf
> Of kb1tce
> Sent: Monday, July 11, 2011 07:22
> To: DAWG-HSMM@yahoogroups.com
> Subject: [DAWG-HSMM] Re: Openfire Spark for HSMM (Redfire Plug In)
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> I am doing this with two XP Pro machines.
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> Steve, KB1TCE
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>> I took down my HSMM after I could find NO ONE interested. Tied up a
>> bunch of my stuff so I could say I had one. Nobody interested means
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>> Wireless LAN; who woulda thunk?
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>> To: DAWG-HSMM@yahoogroups.com
>> Subject: [DAWG-HSMM] Openfire Spark for HSMM
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> Version: 10.0.1390 / Virus Database: 1516/3759 - Release Date: 07/11/11

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>

2228. Fwd: Call for Papers--2011 ARRL/TAPR Digital Communications Conference

Yahoo group: DAWG-HSMM
Date: 2011-07-12 16:06:42 UTC
From: Mark Thompson
Topic: 2228 Message: 2228

More info about the ARRL/TAPR DCC is at: www.tapr.org/dcc

----- Forwarded Message ----

Call for Papers--2011 ARRL/TAPR Digital Communications Conference
Posted by: "Ford, Steve, WB8IMY" sford@... wb8imy
Date: Wed Jun 8, 2011 6:08 am ((PDT))

Technical papers are solicited for presentation at the 30th Annual ARRL and TAPR Digital Communications Conference to be held September 16-18, 2011 in Baltimore, Maryland. These papers will also be published in the Conference Proceedings (you do NOT need to attend the conference to have your paper included in the Proceedings). The submission deadline is July 31, 2011. Please send papers to:

Maty Weinberg
ARRL
225 Main St
Newington, CT 06111

or you can make your submission via e-mail to: maty@...

Papers will be published exactly as submitted and authors will retain all rights.

73 . . . Steve, WB8IMY
ARRL

2229. Re: [DAWG-HSMM] Re: Openfire Spark for HSMM (Redfire Plug In)

Yahoo group: DAWG-HSMM
Date: 2011-07-12 16:41:13 UTC
From: Gregg Wonderly
Topic: 2200 Message: 2229

WAR is the extension of a Jar intended to be used by a Java Web Server in the Java-EE environment. Sounds like a web server or client software is seeing the "PK" header on the file and suggesting a name..

Gregg Wonderly
W5GGW

On 7/11/2011 8:05 PM, Dave wrote:
> It's weird, but the WAR is supposed to be a JAR file. I think the download
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> Dave
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> -----Original Message-----
> From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf
> Of kb1tce
> Sent: Monday, July 11, 2011 07:22
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> Subject: [DAWG-HSMM] Re: Openfire Spark for HSMM (Redfire Plug In)
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> I am doing this with two XP Pro machines.
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> --- In DAWG-HSMM@yahoogroups.com, "Dave"<dave@...> wrote:
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>> I took down my HSMM after I could find NO ONE interested. Tied up a
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>> Thanks for the headsup on Openfire and Spark.
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> Yahoo! Groups Links
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2230. Car weighted flag pole bases - order deadline

Yahoo group: DAWG-HSMM
Date: 2011-07-12 16:57:36 UTC
From: Todd Caldwell
Topic: 2230 Message: 2230

(Sorry if this is a repeat. The first attempt never came through here.)

Hi folks,

We've got enough mounts spoken for (14 so far) to get the lowest price, so I think I'll go ahead and get an order out before this grows too far. If there's more interest, someone else will have to pick that up. :)

My plan at present is to make this Wednesday (July 13, 2011) at noon the cutoff. Please let me know by then if you want one ordered. I'll post a list of all the requests I've had on Tuesday evening and a follow up after I place the order. At that time I'll post the final cost per unit - $23.00 + (total shipping / number ordered).

Thanks and 73's

Todd Caldwell - K5SLR

2231. Re: Openfire Spark for HSMM (Redfire Plug In)

Yahoo group: DAWG-HSMM
Date: 2011-07-12 17:02:43 UTC
From: kb1tce
Topic: 2200 Message: 2231

I got it running. It turned out that I had grabbed the .war file for the older revs of Openfire. I'm running 3.7.0 (latest) so it just didn't work.

I deleted the old .war file from Openfire along with the Redfire folder, plunked in the correct .war and restarted. It all works fine now in the screenshare mode. Next I will attach a video camera.

Nice application.

Steve KB1TCE

--- In DAWG-HSMM@yahoogroups.com, Gregg Wonderly <gergg@...> wrote:
>
> WAR is the extension of a Jar intended to be used by a Java Web Server in the
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> >> To: DAWG-HSMM@yahoogroups.com
> >> Subject: [DAWG-HSMM] Openfire Spark for HSMM
> >>
> >>
> >>
> >>
> >> Thanks for the headsup on Openfire and Spark.
> >> Have openfire installed on Ubuntu for testing.
> >> Spark works as both a windows client and Ubuntu client.
> >> Trying to work through the Red5/Redfire plugins.
> >> This should be a simple way to use HSMM.
> >> How are you going to implement Openfire on your HSMM system???
> >> Now to just get HSMM going. Hi Hi.
> >> Tom, K0YR

> >>
> >>
> >> K0YR
> >> Thomas Rieff
> >> North Mankato, MN 56001
> >> (507) 381-0660 Cell
> >>
> >>
> >>
> >>
> >>
> >>
> >>
> >> _____
> >>
> >> No virus found in this message.
> >> Checked by AVG - www.avg.com
> >> Version: 10.0.1388 / Virus Database: 1516/3742 - Release Date:
> >> 07/03/11
> >>
> >> _____
> >>
> >> No virus found in this message.
> >> Checked by AVG - www.avg.com
> >> Version: 10.0.1388 / Virus Database: 1516/3744 - Release Date:
> >> 07/04/11
> >>
> >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1388 / Virus Database: 1516/3757 - Release Date: 07/10/11
> > -----
> > No virus found in this message.
> > Checked by AVG - www.avg.com
> > Version: 10.0.1390 / Virus Database: 1516/3759 - Release Date: 07/11/11
> >
> >
> >
> > ------------------------------------

> >
> > Yahoo! Groups Links
> >
> >
> >
> >
>

2232. Re: [DAWG-HSMM] Fwd: Call for Papers--2011 ARRL/TAPR Digital Communications Conference

Yahoo group: DAWG-HSMM
Date: 2011-07-12 18:42:19 UTC
From: Kipton Moravec
Topic: 2228 Message: 2232

I am not sure why this was posted to our list. Is TAPR relevant anymore?

I checked out the kits and it seems like half of their kits listed on the website are "discontinued".

There is almost nothing left for APRS or packet.

There is a SDR kit, but that is about it.

It looks like most what they do is the conferences.

Kip

On Tue, 2011-07-12 at 09:06 -0700, Mark Thompson wrote:
>
>
>
>
> More info about the ARRL/TAPR DCC is at: www.tapr.org/dcc
>
>
> ----- Forwarded Message ----
>
>
> Call for Papers--2011 ARRL/TAPR Digital Communications Conference
> Posted by: "Ford, Steve, WB8IMY" sford@... wb8imy
> Date: Wed Jun 8, 2011 6:08 am ((PDT))
>
> Technical papers are solicited for presentation at the 30th Annual
> ARRL
> and TAPR Digital Communications Conference to be held September 16-18,
> 2011 in Baltimore, Maryland. These papers will also be published in
> the
> Conference Proceedings (you do NOT need to attend the conference to
> have
> your paper included in the Proceedings). The submission deadline is
> July
> 31, 2011. Please send papers to:
>
> Maty Weinberg
> ARRL
> 225 Main St
> Newington, CT 06111
>

> or you can make your submission via e-mail to: maty@...
>
> Papers will be published exactly as submitted and authors will retain
> all rights.
>
> 73 . . . Steve, WB8IMY
> ARRL
>
>
>
>
>
>

2233. Re: [DAWG-HSMM] Fwd: Call for Papers--2011 ARRL/TAPR Digital Communications Conference

Yahoo group: DAWG-HSMM
Date: 2011-07-12 19:05:21 UTC
From: Bill Vodall
Topic: 2228 Message: 2233

> It looks like most what they do is the conferences.

The TAPR conference proceedings seems to be the best bang for the buck in ham publications these days... It was surprising how much stuff was going on out there.

http://www.tapr.org/pub_dcc29.html

Bill - WA7NWP

2234. Re: [DAWG-HSMM] Fwd: Call for Papers--2011 ARRL/TAPR Digital Communications Conference

Yahoo group: DAWG-HSMM
Date: 2011-07-12 19:34:50 UTC
From: Rusty Haddock
Topic: 2228 Message: 2234

Kipton Moravec wrote:
>I am not sure why this was posted to our list. Is TAPR relevant
>anymore?

Just 'cause they don't do many kits like they used to doesn't make TAPR irrelevant. HSMM (not necessarily -MESH) is spoke there and at the conferences. They are very much into 'digital'.

Maybe one of these days Amateur Radio will be brought into the 21st century... kicking and screaming (more likely, whining and crying).

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2235. Re: Fwd: Call for Papers--2011 ARRL/TAPR Digital Communications Conference

Yahoo group: DAWG-HSMM
Date: 2011-07-12 23:59:02 UTC
From: kb9mwr
Topic: 2228 Message: 2235

And maybe the ARRL and TAPR will pinch themselves and realize hams look to them as leaders.... Though I personally am not sure why.

As to why that was posted here... you'll have to excuse Mark. This is what he does. Sort of like a self-appointed internet bulletin manager.

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:

> Maybe one of these days Amateur Radio will be brought into the 21st
> century... kicking and screaming (more likely, whining and crying).

2236. Re: [Austin_HSMM_Development] VoIP in general

Yahoo group: DAWG-HSMM
Date: 2011-07-16 15:47:45 UTC
From: Patrick Soileau ND5C
Topic: 2236 Message: 2236

Todd,

Several weeks ago, Rusty and I spent a few hours one afternoon
configuring a 3CX VOIP switch on an Acer Aspire laptop, along
with three (3) Sipura SPA-1001 ATAs for a small demo system.

Everything is setup in the DMZ.

I wanted to use the port working and put stuff behind the firewall,
but the range of ports option for forwarding is not yet available.
David AD5OO and a few others sent me the stuff to patch my
node to make it happen, but I decided to wait until the release
of 0.4.2 in which this feature would be incorporated.

David also suggested that it'd be better to leave the VOIP ATAs
in the DMZ as some protocols do not do so well with NAT, so
I figured I'd just leave things as are for now.

If you'd like, I'd be happy to drag all that stuff out and show you
what we've done. :)

73,

Pat ND5C
214-850-6439 (cell)

From: Todd Caldwell <tmCaldwell@...>
Subject: Re: [Austin_HSMM_Development] VoIP in general
To: Austin_HSMM_Development@yahoogroups.com
Date: Saturday, July 16, 2011, 10:37 AM

That will be helpful Rusty, although not nearly so much as actual
documentation would be.

Unfortunately the demo is today. Guess the Extended Demo will be next
time. :)

Thanks.

Most likely will see you Tuesday.

Todd

Rusty Haddock wrote:
> Todd Caldwell wrote:
> >I'm trying to get a VoIP setup to work over hsmm-mesh nodes. I have a
> >PBX in a Flash install of FreePBX running on a server machine. My
> >though is to put that server machine in the DMZ on the mesh node that

> >it's attached to.
> >...
> >I'm trying to work around forwarding port ranges, since that is not
> >ready yet and SIP needs a BIG range of ports.
>
> If you'll come to Digital Tuesday :-) I can show you how to get around
> the forwarding port ranges until David puts it into the next version.
>
> -Rusty-
>

2237. Flagpole base order has been sent

Yahoo group: DAWG-HSMM
Date: 2011-07-16 22:05:27 UTC
From: Todd Caldwell
Topic: 2237 Message: 2237

Hi all,

I placed the order this afternoon.

I have ordered flagpole bases for the following folks in the indicated quantities:

Andy Carstarphen WY5V 1
Craig KV5E 1
Patrick Soileau ND5C 3
John Simonton AE5KW 1
Ron Abraham KC5IMJ 2
Warren Moxley K5WGM 1
Doug Kilgore KD5OUG 1
Brady Pamplin 1
Chuck Calhoun KF5GTC 1
Ross Terry K5SRT 3

More details on price / payment / etc will follow in individual emails.

Todd Caldwell - K5SLR

2238. Unidentified Linksys Router

Yahoo group: DAWG-HSMM
Date: 2011-07-17 03:10:14 UTC
From: Kilgore
Topic: 2238 Message: 2238

I picked up a used Linksys router the other day. The outside of the case says
WRT54G V1.1 Ser No CDF20C850881. mac
000C41755A7A

The case had been opened. The board on inside has label
Ser No CFB0-54110700 R10
WO-111111390 19817

I reset it to factory and reboot and it comes up
WRT54GS mac 000C41755A7B (one letter
different)
Firmware: *v4.71.1, Hyperwrt 2.1b1 + Thibor15c [May 12 2006]*

The processor is Broadcom BCM4702KPB. There's another chip ADM6996.
Power chip is AC1501-33 (that's a DC-DC converter)

I tried to locate the model number for CFB0 but I didn't find it?

I guess someone has swapped boards.

What do I really have?

Doug

2239. rootenna

Yahoo group: DAWG-HSMM
Date: 2011-07-17 03:35:06 UTC
From: jeff
Topic: 2239 Message: 2239

I see that N5OOM and the Irving ARC used the 19db Rootenna. After doing so would you still recomend this antenna? Would you add a second antenna to the mix? I read that there was some work with aiming the antennas. I have four routers that I would like to set up in the North Richland Hills area, but antenna vs cost could be a problem. I am looking at the 15db Rootenna.
Thanks,
Jeff
N5XHI

2240. Re: [DAWG-HSMM] rootenna

Yahoo group: DAWG-HSMM
Date: 2011-07-17 03:57:07 UTC
From: Kipton Moravec
Topic: 2239 Message: 2240

On Sun, 2011-07-17 at 03:35 +0000, jeff wrote:
> I see that N5OOM and the Irving ARC used the 19db Rootenna. After doing so would you still recomend this antenna? Would you add a second antenna to the mix? I read that there was some work with aiming the antennas. I have four routers that I would like to set up in the North Richland Hills area, but antenna vs cost could be a problem. I am looking at the 15db Rootenna.
> Thanks,
> Jeff
> N5XHI

I like both of them. Which one to get depends on what you plan to do
with it.

What are you going to do with them?

What kind of range do you want?

Is this a fixed setup, or are you moving them around periodically?

I need a little more information to help with the recommendation.

Kip

2241. Re: [DAWG-HSMM] Unidentified Linksys Router

Yahoo group: DAWG-HSMM
Date: 2011-07-17 12:01:09 UTC
From: Kipton Moravec
Topic: 2238 Message: 2241

On Sat, 2011-07-16 at 22:10 -0500, Kilgore wrote:
>
>
> I picked up a used Linksys router the other day. The outside of the
> case says
> WRT54G V1.1 Ser No CDF20C850881. mac
> 000C41755A7A
>
> The case had been opened. The board on inside has label
> Ser No CFB0-54110700 R10
> WO-111111390 19817
>
> I reset it to factory and reboot and it comes up
> WRT54GS mac 000C41755A7B (one
> letter different)
> Firmware: v4.71.1, Hyperwrt 2.1b1 + Thibor15c [May 12 2006]
>
> The processor is Broadcom BCM4702KPB. There's another chip ADM6996.
> Power chip is AC1501-33 (that's a DC-DC converter)
>
> I tried to locate the model number for CFB0 but I didn't find it?
>
> I guess someone has swapped boards.
>
> What do I really have?
>
> Doug
>

The Linksys Routers with BCM4702 processor are:
WRT55AG
WRT55AG
WAP54G V1.0 and 1.1

http://www.dd-wrt.com/wiki/index.php/Supported_Devices#Linksys

All those units are 5V not 12V

ADMtek ADM6996 is a ethernet switch chip.

AC1501-33 is a 3.3V regulator, which can go to 45V input. So it may not
be a 5V input part.

I could not find anything about CFB0- either.

Kip

>
>

2242. Bi-Quad antenna coax

Yahoo group: DAWG-HSMM
Date: 2011-07-17 20:15:02 UTC
From: icra@galaxynet.com
Topic: 2242 Message: 2242

OK guys....got a time sensitive issue I am dealing with

Trying to get a couple routers set up for internet access at an event on the 22nd

Building a Bi-Quad antenna to feed an old Primestar dish....due to time issues, can not wait
for good coax

Was going to strip the dielectric/center out of some RG-6 coax and slide it inside brass tube
between the router and antenna (kind of turning it into hard line)

Anyone know how bad the SWR will get messed up running about 9" of 75ohm feed line to the antenna?

Mel
N7OKL

2243. Re: [DAWG-HSMM] Bi-Quad antenna coax

Yahoo group: DAWG-HSMM
Date: 2011-07-17 22:25:38 UTC
From: Rusty Haddock
Topic: 2242 Message: 2243

Mel,
Unless I've messed up my calculations, 9" is almost two full wavelengths at 2.4-GHz. If the RG-6 is very good quality (velocity factor around ~0.9 or better) I suspect it won't hurt too much. If the cable is from RadioShack... may Heaven help you!

Then again, you really don't have much choice do ya? Crappy SWR's or nothing at all...

Rotsa ruck!
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2244. Re: [DAWG-HSMM] rootenna

Yahoo group: DAWG-HSMM
Date: 2011-07-17 23:04:26 UTC
From: jeff robinson
Topic: 2239 Message: 2244

Fixed setup in the four corners of NRH. Also looking for one Omni antenna for the center of the city and use the Rootenna in the four corners and outside diameter of the city. We would add fixed stations as each club member would come aboard. Make it where we could setup a portable or maybe a mobile mesh with cameras any where in the city for weather, bike rides or runs.
Thanks,
Jeff
N5XHI

I like both of them. Which one to get depends on what you plan to do
with it.

What are you going to do with them?

What kind of range do you want?

Is this a fixed setup, or are you moving them around periodically?

I need a little more information to help with the recommendation.

Kip

2245. Re: [DAWG-HSMM] rootenna

Yahoo group: DAWG-HSMM
Date: 2011-07-18 00:01:59 UTC
From: Kipton Moravec
Topic: 2239 Message: 2245

Not that familiar with NRH but altitude is your friend. For long distance you need to get way above the trees and buildings.

What is the range in miles you are looking for?

Kip

On Sun, 2011-07-17 at 16:04 -0700, jeff robinson wrote:
>
>
> Fixed setup in the four corners of NRH. Also looking for one Omni
> antenna for the center of the city and use the Rootenna in the four
> corners and outside diameter of the city. We would add fixed stations
> as each club member would come aboard. Make it where we could setup a
> portable or maybe a mobile mesh with cameras any where in the city for
> weather, bike rides or runs.
> Thanks,
> Jeff
> N5XHI
>
>
>
> I like both of them. Which one to get depends on what you plan
> to do
> with it.
>
> What are you going to do with them?
>
> What kind of range do you want?
>
> Is this a fixed setup, or are you moving them around
> periodically?
>
> I need a little more information to help with the
> recommendation.
>
> Kip
>
>
>
>
>

2246. Re: [DAWG-HSMM] rootenna

Yahoo group: DAWG-HSMM
Date: 2011-07-18 00:32:18 UTC
From: jeff robinson
Topic: 2239 Message: 2246

Here is the map of North Richland Hills, Texas.
http://www.nrhtx.com/DocumentView.aspx?DID=316
Thanks,
Jeff
N5XHI

--- On Sun, 7/17/11, Kipton Moravec <kip@...> wrote:

From: Kipton Moravec <kip@...>
Subject: Re: [DAWG-HSMM] rootenna
To: DAWG-HSMM@yahoogroups.com
Date: Sunday, July 17, 2011, 7:01 PM

Not that familiar with NRH but altitude is your friend. For long
distance you need to get way above the trees and buildings.

What is the range in miles you are looking for?

Kip

On Sun, 2011-07-17 at 16:04 -0700, jeff robinson wrote:
>
>
> Fixed setup in the four corners of NRH. Also looking for one Omni
> antenna for the center of the city and use the Rootenna in the four
> corners and outside diameter of the city. We would add fixed stations
> as each club member would come aboard. Make it where we could setup a
> portable or maybe a mobile mesh with cameras any where in the city for
> weather, bike rides or runs.
> Thanks,
> Jeff
> N5XHI
>
>
>
> I like both of them. Which one to get depends on what you plan
> to do
> with it.
>
> What are you going to do with them?
>
> What kind of range do you want?
>
> Is this a fixed setup, or are you moving them around
> periodically?
>

> I need a little more information to help with the
> recommendation.
>
> Kip
>
>
>
>
>

2247. Re: [DAWG-HSMM] Bi-Quad antenna coax

Yahoo group: DAWG-HSMM
Date: 2011-07-18 01:43:55 UTC
From: icra@galaxynet.com
Topic: 2242 Message: 2247

> Unless I've messed up my calculations, 9" is almost two full
> wavelengths at 2.4-GHz. If the RG-6 is very good quality
> (velocity
> factor around ~0.9 or better) I suspect it won't hurt too much.
> If
> the cable is from RadioShack... may Heaven help you!
>
9" was just a guess....will be just long enough to mount the antenna on the dish and still leave
room to access the power/network cables

At least I will not be getting it from Radio Shack...but will be off a Dish Network set up

Will replace it with some good stuff after this event...wish I knew that I would be trying to do
this a month ago so it would be done right the first time and have more testing time

My plan is a dish with Bi-Quad feed on one end and a Double Bi-Quad on the other end.
Think the path can be covered with just a couple Bi-Quads, but with as much rain as we get around here, more is better and might even build and test 2 dishs if I have time

At least it is just a point to point set up and not a full blown network.....

Will give it a shot and see if it works

Mel
N7OKL

2248. Digital Tuesday tomorrow!

Yahoo group: DAWG-HSMM
Date: 2011-07-18 19:00:38 UTC
From: Rusty Haddock
Topic: 2248 Message: 2248

Yes! You knew it was coming. This hasn't been the only announcement!
OK, so the others didn't have an agenda but it's that time again!

Tuesday July 19th!
7pm at 299 Connor Rd, Lucas, TX
Follow the driveway to the back gate and to the pool house.
We don't mind early arrivals especially if they're from Ft Worth. :-)

Map: http://tinyurl.com/3pw5fvq

Talk-in will be on the Plano repeater, 147.180+ PL107.2 (which is announced).

Tomorrow's lineup looks like this:

o NAT -- How to punch wide holes in the firewall manually!
o Demo the Mesh Tunnelling that's being worked on in Austin.
o To Meet or Not To Meet -- That's the question.
Is twice a month too much fun?
o Ready for the Plano Balloon Fest?
o Where To Now? Yes, more mesh stuff but what about other digi modes?
o Wanna build a TNC-X?

So we've kinda gotta full card for tomorrow.
Come and join us at the pool house!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2249. Re: [DAWG-HSMM] Digital Tuesday tomorrow! - 3CX VOIP,

Yahoo group: DAWG-HSMM
Date: 2011-07-18 19:14:53 UTC
From: Patrick Soileau ND5C
Topic: 2248 Message: 2249

Rusty,

After receiving an e-mail from Todd Caldwell K5SLR, I'm going to
bring the setup that we put together for the 3CX VOIP system so
that he can look at it.

Regarding the "Build a TNC-X" idea, I'd have to vote "nay."

The HSMM-MESH is *useless* as an emergency communications
system *unless* we have at least a few nodes deployed on water
towers to provide some type of "wide area" coverage.

My thinking here is we need to focus on getting this project to some
type of usable state before even talking about starting anything else.

73,

Pat ND5C
214-850-6439 (cell)

From: Rusty Haddock <rusty@...>
Subject: [DAWG-HSMM] Digital Tuesday tomorrow!
To: dawg-hsmm@yahoogroups.com
Cc: mesquite-hsmm@yahoogroups.com, austin_hsmm_development@yahoogroups.com
Date: Monday, July 18, 2011, 2:00 PM

Yes! You knew it was coming. This hasn't been the only announcement!
OK, so the others didn't have an agenda but it's that time again!

Tuesday July 19th!
7pm at 299 Connor Rd, Lucas, TX
Follow the driveway to the back gate and to the pool house.
We don't mind early arrivals especially if they're from Ft Worth. :-)

Map: http://tinyurl.com/3pw5fvq

Talk-in will be on the Plano repeater, 147.180+ PL107.2 (which is announced).

Tomorrow's lineup looks like this:

o NAT -- How to punch wide holes in the firewall manually!
o Demo the Mesh Tunnelling that's being worked on in Austin.
o To Meet or Not To Meet -- That's the question.
Is twice a month too much fun?
o Ready for the Plano Balloon Fest?
o Where To Now? Yes, more mesh stuff but what about other digi modes?
o Wanna build a TNC-X?

So we've kinda gotta full card for tomorrow.
Come and join us at the pool house!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2250. Re: [DAWG-HSMM] Digital Tuesday tomorrow! - 3CX VOIP,

Yahoo group: DAWG-HSMM
Date: 2011-07-18 20:33:17 UTC
From: Todd Caldwell
Topic: 2248 Message: 2250

Thanks Patrick. I look forward to seeing your setup.

If I can make a bit more progress on it tonight, I'll bring my asterisk server and a few of my phones.

As for where we're going, I'd have to agree that we need to focus for now at least on getting into a more usable state with HSMM-MESH deployment. Both in a more wide coverage nodes deployed sense, and in the sense of having a more visible, communications oriented set of demos to share with our fellow hams. Those of us that are somewhat network aware understand the potential usefulness of the system. We need a set of demos for those that are not so network oriented though.

The tunneling system is another very useful, but somewhat obscure sort of deal. It'll be great for development and testing, but for emergency communications, maybe not so much. Most will see it as "oh - you can talk over the internet." Nothing real new there. Much more impact if it's all ham and all RF. Not to belittle it of course. It'll be handy even between here and Plano until we can get more RF links up.

I believe interest in HSMM is picking up a bit here in Mesquite. I have a configuration problem I'd like to discuss regarding a potential multi-node install on the big tower here. A batch of cables arrived today, so I should be able to start constructing the enclosures soon, but I still have concerns about how to manage updates without having to send someone up the tower every time.

See you all tomorrow,

Todd Caldwell - K5SLR

2251. Re: [DAWG-HSMM] Digital Tuesday tomorrow! - 3CX VOIP,

Yahoo group: DAWG-HSMM
Date: 2011-07-18 20:54:07 UTC
From: Kipton Moravec
Topic: 2248 Message: 2251

> I believe interest in HSMM is picking up a bit here in Mesquite. I have
> a configuration problem I'd like to discuss regarding a potential
> multi-node install on the big tower here. A batch of cables arrived
> today, so I should be able to start constructing the enclosures soon,
> but I still have concerns about how to manage updates without having to
> send someone up the tower every time.

With Version 4, if there is one node on the network with Internet
access, and if you can log into it over the air, you can update it. It
is very easy now.

Kip

2252. Re: [DAWG-HSMM] Digital Tuesday tomorrow! - 3CX VOIP,

Yahoo group: DAWG-HSMM
Date: 2011-07-18 21:11:40 UTC
From: Josh Mercer
Topic: 2248 Message: 2252

With all the VOIP interest, I guess I will throw in my 2 cents. I would be interested in seeing what everyone is doing with their VOIP setups, and some of the ideas on how best to implement them. I too have a box that I finally got up and running a couple of days ago to plug in to my mesh that is running Asterisk and Openfire. I will bring that out tomorrow to go along with everyone else's show and tell.

On a side note, has anyone played with the Asterisk-IM plugin for Openfire? I am curious to start playing with it now that I have the box up and running, but wanted to know if anyone else had started down that road yet...

de ke5fco

On 7/18/2011 3:33 PM, Todd Caldwell wrote:
>
> Thanks Patrick. I look forward to seeing your setup.
>
> If I can make a bit more progress on it tonight, I'll bring my asterisk
> server and a few of my phones.
>
> As for where we're going, I'd have to agree that we need to focus for
> now at least on getting into a more usable state with HSMM-MESH
> deployment. Both in a more wide coverage nodes deployed sense, and in
> the sense of having a more visible, communications oriented set of demos
> to share with our fellow hams. Those of us that are somewhat network
> aware understand the potential usefulness of the system. We need a set
> of demos for those that are not so network oriented though.
>
> The tunneling system is another very useful, but somewhat obscure sort
> of deal. It'll be great for development and testing, but for emergency
> communications, maybe not so much. Most will see it as "oh - you can
> talk over the internet." Nothing real new there. Much more impact if
> it's all ham and all RF. Not to belittle it of course. It'll be handy
> even between here and Plano until we can get more RF links up.
>
> I believe interest in HSMM is picking up a bit here in Mesquite. I have
> a configuration problem I'd like to discuss regarding a potential
> multi-node install on the big tower here. A batch of cables arrived
> today, so I should be able to start constructing the enclosures soon,
> but I still have concerns about how to manage updates without having to
> send someone up the tower every time.
>
> See you all tomorrow,
>
> Todd Caldwell - K5SLR

>
>

2253. Re: [DAWG-HSMM] Digital Tuesday tomorrow! - 3CX VOIP,

Yahoo group: DAWG-HSMM
Date: 2011-07-18 21:23:35 UTC
From: Todd Caldwell
Topic: 2248 Message: 2253

Updating a single node is not a problem.

However, we'd like to connect all the nodes to a switch via wired ethernet. We have a 5.8 GHz backhaul system that will get us to the nodes even if the mesh side is not working. This works well for the single node we have up at present. Dave - AD5OO - gave me some pointers for v 0.3.3, but I haven't heard if they will still work or not. I had initially though I needed the nodes to bridge across the LAN connection, but I'm thinking the RF links may be enough for that part now. LAN side access is still a much desired feature though.

The update issue may all be just a matter of managing the order of operations carefully. Set all the nodes LAN addresses to something other than 172.27.0.1, then update the first one, let it finish, re-supply callsign, then reset the LAN address - again to something other than 172.27.0.1, and proceed to the next one.

We do plan to attach the factory antennas to the spare port on each node, hopefully to enable them to communicate with each other via RF, but we have learned that there are times when the RF side locks up and a LAN connection is needed to recover the node. Rather inconvenient when the nodes are at 430 Ft AGL.

If we can get the nodes to work together on the wired LAN, we may have a way to get a fiber connection down to ground level. If that works out, I think we'll put a regular wifi access point in the ground level radio room. That'll give us another level of redundancy. It may also allow us to put a VoIP server there at ground level as well. That will require resolving the NAT problems I think.

Todd

Kipton Moravec wrote:
>> I believe interest in HSMM is picking up a bit here in Mesquite. I have
>> a configuration problem I'd like to discuss regarding a potential
>> multi-node install on the big tower here. A batch of cables arrived
>> today, so I should be able to start constructing the enclosures soon,
>> but I still have concerns about how to manage updates without having to
>> send someone up the tower every time.
>>
>
> With Version 4, if there is one node on the network with Internet
> access, and if you can log into it over the air, you can update it. It
> is very easy now.
>
> Kip

>
>
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>
> ---
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> Yahoo! Groups Links
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2254. Re: [DAWG-HSMM] Digital Tuesday tomorrow!

Yahoo group: DAWG-HSMM
Date: 2011-07-18 21:26:53 UTC
From: jeff robinson
Topic: 2248 Message: 2254

I wish that someone could video tape these meets, it starting to sound like the apple experiment in the garage meeting. We all know what happen there!
From Fort Worth, Lucas is a look to far, Irving would be great.
Thanks,
Jeff N5XHI

2255. RE: [DAWG-HSMM] Digital Tuesday tomorrow!

Yahoo group: DAWG-HSMM
Date: 2011-07-18 22:06:04 UTC
From: Brady Pamplin
Topic: 2248 Message: 2255

I'm out this week but should be back next time. Don't drop me yet.

Camping near Wolf Creek Pass - Pagosa Springs CO. Wish you were here! All you could hope for except phone service and that's probably good.

Brady

To: dawg-hsmm@yahoogroups.com
CC: mesquite-hsmm@yahoogroups.com; austin_hsmm_development@yahoogroups.com
From: rusty@...
Date: Mon, 18 Jul 2011 14:00:38 -0500
Subject: [DAWG-HSMM] Digital Tuesday tomorrow!

Yes! You knew it was coming. This hasn't been the only announcement!

OK, so the others didn't have an agenda but it's that time again!

Tuesday July 19th!

7pm at 299 Connor Rd, Lucas, TX

Follow the driveway to the back gate and to the pool house.

We don't mind early arrivals especially if they're from Ft Worth. :-)

Map: http://tinyurl.com/3pw5fvq

Talk-in will be on the Plano repeater, 147.180+ PL107.2 (which is announced).

Tomorrow's lineup looks like this:

o NAT -- How to punch wide holes in the firewall manually!

o Demo the Mesh Tunnelling that's being worked on in Austin.

o To Meet or Not To Meet -- That's the question.

Is twice a month too much fun?

o Ready for the Plano Balloon Fest?

o Where To Now? Yes, more mesh stuff but what about other digi modes?

o Wanna build a TNC-X?

So we've kinda gotta full card for tomorrow.

Come and join us at the pool house!

-Rusty-

--

_____ Rusty Haddock <=> AE5AE

|\/ o \ o Way out yonder in the

| (-< O o Van Alstyne (TX) Metropolitan Area

|/__V__/ Math illiteracy affects 7 out of 5 people!

2256. Re: [DAWG-HSMM] Digital Tuesday tomorrow! - 3CX VOIP,

Yahoo group: DAWG-HSMM
Date: 2011-07-19 15:13:20 UTC
From: Alex Casanova
Topic: 2248 Message: 2256

In addition, my 2 cents about VoIP

In Spain we are development a network called guifi.net (http://guifi.net), and we have a lot of Asterisk Servers with a central server with Kamailio. All the network has and extension like 70XXXXXXX.

You can take a look, a project called Blink and Sylkserver, there a very strong open source solution for communications (IM, Video, and Audio). If you are interested you can try it in Sip2sip (*sip2sip*.info)

If I can help, in the VoIP infraestructure from here, here I am.
Best Regards

--

Alex Casanova (EA5HJX)
Web: www.bicubik.net
M?vil: 668.85.38.18
Skype: alexbogus

2257. QRZ.com Thread - Two Meter Simplex Freqs in Texas - Reallocate Some to D-STAR?

Yahoo group: DAWG-HSMM
Date: 2011-07-19 21:55:12 UTC
From: Patrick Soileau ND5C
Topic: 2257 Message: 2257

http://forums.qrz.com/showthread.php?305361-Loss-of-two-meter-simplex-frequencies-IMMINENT-in-Texas!

2258. kismet or other signal reading software

Yahoo group: DAWG-HSMM
Date: 2011-07-20 00:03:40 UTC
From: icra@galaxynet.com
Topic: 2258 Message: 2258

Fighting with try to get kismet drone onto my router

Looks like they have changed things around and I can not get it working

Any other software that will read signal strength off the 54g series and report it to the computer?

Also, anyone want to hold a total noob's hand through Ubuntu 11.04?

Mel
N7OKL

2259. Re: [DAWG-HSMM] kismet or other signal reading software

Yahoo group: DAWG-HSMM
Date: 2011-07-20 04:14:44 UTC
From: Kipton Moravec
Topic: 2258 Message: 2259

On Tue, 2011-07-19 at 17:03 -0700, icra@... wrote:
> Fighting with try to get kismet drone onto my router
>
> Looks like they have changed things around and I can not get it working
>
> Any other software that will read signal strength off the 54g series and report it to the
> computer?
>
> Also, anyone want to hold a total noob's hand through Ubuntu 11.04?
>
> Mel
> N7OKL

If you are new to Ubuntu, I would recommend staying with the Long Term
Releases or use 10.04 LTS. It is very stable, and is supported longer
than 11.04 will be.

Kip

2260. VoIP phones and such we discussed at the meeting

Yahoo group: DAWG-HSMM
Date: 2011-07-20 19:40:34 UTC
From: Todd Caldwell
Topic: 2260 Message: 2260

Hi folks,

I checked my records and I had misremembered which store I got my VoIP phones.

Turns out it was actually http://www.telephonydepot.com/

Here's the GrandStream GXP280 ($37.20) :
http://www.telephonydepot.com/Grandstream-GXP-280

And it's PoE capable cousin, the GXP285 ($43.20) :
http://www.telephonydepot.com/Grandstream-GXP285

Also, the Asterisk install I've been working with is PBX in a Flash.

See here for the software : http://pbxinaflash.net/

and here for a walk thru of the installation:
http://nerdvittles.com/index.php?p=740

A further warning - this software will format the drives of whatever machine you run it on. You do have to give it the go-ahead before it starts, but read the screens carefully. DO NOT attempt to install it along side other software. It doesn't work that way unless you're using some sort of virtualization package.

Finally here's the 15 dB Omni we talked about :
http://www.titanwirelessonline.com/2-4GHz-15dBi-Omni-p/at-15om-24.htm

73's

Todd Caldwell - K5SLR

2261. Oops - GXP285 is 48VDC 802.3af PoE

Yahoo group: DAWG-HSMM
Date: 2011-07-20 20:23:39 UTC
From: Todd Caldwell
Topic: 2261 Message: 2261

I mentioned this phone in my summary email because I'd been asked if the GXP280 was PoE capable last night.

This one is :

GXP285 ($43.20) : http://www.telephonydepot.com/Grandstream-GXP285

BUT - it's the expensive sort of PoE that requires a rather smart power supply.

If PoE is something you want, one of the simple injectors we've looked at plus a regulator down to 5VDC would probably be the way to go.

As usual, if using the simple PoE schemes, pay attention. The fancy version will save you from shorts and such. The cheap one, not so much.

73's

Todd

2262. 20 dbi yagi - Cheap!

Yahoo group: DAWG-HSMM
Date: 2011-07-21 04:18:16 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2062 Message: 2262

Hi Folks!

Anyone see this? A friend of mine, N2OEL has ordered one, but is waiting for it to arrive.

http://www.ahappydeal.com/products/product_28912.htm

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

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2263. Re: [DAWG-HSMM] 20 dbi yagi - Cheap!

Yahoo group: DAWG-HSMM
Date: 2011-07-21 04:28:36 UTC
From: Glenn Currie
Topic: 2062 Message: 2263

I would be check this antenna carefully. We have seen similar antennas and the boom is, much, much to large in relation to the "active" elements to work well. The problem seems to come from an effort to use the same boom from lower frequency antennas (larger active elements) and translate the design to a higher frequency. The elements of the antenna have been reduced, but not the relative size of the boom. Much of the length of the elements is inside the boom.

Three of us here in Austin have antennas that look much the same and the antennas are not directional at all.

If it works well let folks know. If the actual antenna looks different than the one shown, please include a photo of what the antenna actually looks like.

Best of luck.

-Glenn
KD5MFW

_____
From: "J.Gordon Beattie, Jr., W2TTT" <w2ttt@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Wednesday, July 20, 2011 11:18 PM
Subject: [DAWG-HSMM] 20 dbi yagi - Cheap!

Hi Folks!
Anyone see this? A friend of mine,
N2OEL has ordered one, but is waiting for it to arrive.
http://www.ahappydeal.com/products/product_28912.htm

Thanks & 73,
Gordon Beattie, W2TTT
201.314.6964

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2264. RE: [DAWG-HSMM] 20 dbi yagi - Cheap!

Yahoo group: DAWG-HSMM
Date: 2011-07-21 04:31:05 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2062 Message: 2264

Glenn,

Well, I think I can wait for Noel (N2OEL) to get his and then decide to order if it is decent.

I can check the directionality very easily.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

I would be check this antenna carefully. We have seen similar antennas and the boom is, much, much to large in relation to the "active" elements to work well. The problem seems to come from an effort to use the same boom from lower frequency antennas (larger active elements) and translate the design to a higher frequency. The elements of the antenna have been reduced, but not the relative size of the boom. Much of the length of the elements is inside the boom.

Three of us here in Austin have antennas that look much the same and the antennas are not directional at all.

If it works well let folks know. If the actual antenna looks different than the one shown, please include a photo of what the antenna actually looks like.

Best of luck.

-Glenn

KD5MFW

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2265. Re: [DAWG-HSMM] 20 dbi yagi - Cheap!

Yahoo group: DAWG-HSMM
Date: 2011-07-21 05:09:56 UTC
From: Glenn Currie
Topic: 2062 Message: 2265

Fine business. I would love for folks to get good deals on gear, but hate to see folks selling stuff that does not work.
Similar 2.4 GHz antennas with similar spacing of the elements and number of elements, claim 15 not 20 dB gain.

Testing was easy. We hooked it up and it made no difference at all what direction my sample was aimed.

The MFJ 1800 is a roughly similar antenna. I have several and electrically / RF wise they work very well. But they are mechanically flimsy and really need to be put in a radome tube so they don't wiggle in the wind like a leaf.

So I found a similar antenna with a beefy boom that was plenty sturdy, but quickly realized it was stout, but did not radiate well. One would hope there would be a low cost blend that was mechanically solid - and work well for the intended purpose.

Here is a link to the MFJ - works well - we have done links of over 10 miles with no amps using and WRT54G hardware. But they must have some sort of mechanical support added, that does not detract from the electrical characteristics.
<http://www.hamradio.com/detail.cfm?pid=H0-008216>

Let folks know what you find.

-Glenn
KD5MFW

From: "J.Gordon Beattie, Jr., W2TTT" <w2ttt@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Wednesday, July 20, 2011 11:31 PM
Subject: RE: [DAWG-HSMM] 20 dbi yagi - Cheap!

Glenn,
Well, I think I can wait for Noel (N2OEL)
to get his and then decide to order if it is decent.
I can check the directionality very easily.

Thanks & 73,
Gordon Beattie, W2TTT
201.314.6964

I would be
check this antenna carefully. We have seen similar antennas and the boom
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well. The problem seems to come from an effort to use the same boom from
lower frequency antennas (larger active elements) and translate the design to a

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Best of luck.

-Glenn
KD5MFW

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2266. Re: [DAWG-HSMM] 20 dbi yagi - Cheap!

Yahoo group: DAWG-HSMM
Date: 2011-07-21 08:47:11 UTC
From: Dennis Karol
Topic: 2062 Message: 2266

Did you check that shipping cost? Nearly ninety bucks! It makes the "deal", not such a "deal"!

On 7/21/2011 1:09 AM, Glenn Currie wrote:
> Fine business. I would love for folks to get good deals on gear, but
> hate to see folks selling stuff that does not work.
> Similar 2.4 GHz antennas with similar spacing of the elements and
> number of elements, claim 15 not 20 dB gain.
>
> Testing was easy. We hooked it up and it made no difference at all
> what direction my sample was aimed.
>
> The MFJ 1800 is a roughly similar antenna. I have several and
> electrically / RF wise they work very well. But they are mechanically
> flimsy and really need to be put in a radome tube so they don't wiggle
> in the wind like a leaf.
>
> So I found a similar antenna with a beefy boom that was plenty sturdy,
> but quickly realized it was stout, but did not radiate well. One
> would hope there would be a low cost blend that was mechanically solid
> - and work well for the intended purpose.
>
> Here is a link to the MFJ - works well - we have done links of over 10
> miles with no amps using and WRT54G hardware. But they must have some
> sort of mechanical support added, that does not detract from the
> electrical characteristics.
> <http://www.hamradio.com/detail.cfm?pid=H0-008216>
>
> Let folks know what you find.
>
> -Glenn
> KD5MFW
>
> ---
> *From:* "J.Gordon Beattie, Jr., W2TTT" <w2ttt@...>
> *To:* DAWG-HSMM@yahoogroups.com
> *Sent:* Wednesday, July 20, 2011 11:31 PM
> *Subject:* RE: [DAWG-HSMM] 20 dbi yagi - Cheap!
>
> Glenn,
> Well, I think I can wait for Noel (N2OEL) to get his and then decide
> to order if it is decent.
> I can check the directionality very easily.
> //Thanks & 73,//
> //Gordon Beattie, W2TTT//

> //201.314.6964//////
> ----------
> I would be check this antenna carefully. We have seen similar
> antennas and the boom is, much, much to large in relation to the
> "active" elements to work well. The problem seems to come from an
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> active elements) and translate the design to a higher frequency. The
> elements of the antenna have been reduced, but not the relative size
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> Three of us here in Austin have antennas that look much the same and
> the antennas are not directional at all.
> If it works well let folks know. If the actual antenna looks
> different than the one shown, please include a photo of what the
> antenna actually looks like.
> Best of luck.
> -Glenn
> KD5MFW
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2267. Re: [DAWG-HSMM] 20 dbi yagi - Cheap!

Yahoo group: DAWG-HSMM
Date: 2011-07-21 08:49:24 UTC
From: Dennis Karol
Topic: 2062 Message: 2267

Oops, I was wrong about the shipping. It's too early in the morning for me to read "straight", I guess. Maybe it is a real deal after all! I think I'm I'm gonna give it a go.

On 7/21/2011 4:47 AM, Dennis Karol wrote:
>
> Did you check that shipping cost? Nearly ninety bucks! It makes the
> "deal", not such a "deal"!
>
> On 7/21/2011 1:09 AM, Glenn Currie wrote:
>
>> Fine business. I would love for folks to get good deals on gear, but
>> hate to see folks selling stuff that does not work.
>> Similar 2.4 GHz antennas with similar spacing of the elements and
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>> wiggle in the wind like a leaf.
>>
>> So I found a similar antenna with a beefy boom that was plenty
>> sturdy, but quickly realized it was stout, but did not radiate well.
>> One would hope there would be a low cost blend that was mechanically
>> solid - and work well for the intended purpose.
>>
>> Here is a link to the MFJ - works well - we have done links of over
>> 10 miles with no amps using and WRT54G hardware. But they must have
>> some sort of mechanical support added, that does not detract from the
>> electrical characteristics.
>> <http://www.hamradio.com/detail.cfm?pid=H0-008216>
>>
>> Let folks know what you find.
>>
>> -Glenn
>> KD5MFW
>>
>> ---
>> *From:* "J.Gordon Beattie, Jr., W2TTT" <w2ttt@...>
>> *To:* DAWG-HSMM@yahoogroups.com
>> *Sent:* Wednesday, July 20, 2011 11:31 PM
>> *Subject:* RE: [DAWG-HSMM] 20 dbi yagi - Cheap!

>>
>> Glenn,
>> Well, I think I can wait for Noel (N2OEL) to get his and then decide
>> to order if it is decent.
>> I can check the directionality very easily.
>> //Thanks & 73,//
>> //Gordon Beattie, W2TTT//
>> //201.314.6964//////
>> ---
>> I would be check this antenna carefully. We have seen similar
>> antennas and the boom is, much, much to large in relation to the
>> "active" elements to work well. The problem seems to come from an
>> effort to use the same boom from lower frequency antennas (larger
>> active elements) and translate the design to a higher frequency. The
>> elements of the antenna have been reduced, but not the relative size
>> of the boom. Much of the length of the elements is inside the boom.
>> Three of us here in Austin have antennas that look much the same and
>> the antennas are not directional at all.
>> If it works well let folks know. If the actual antenna looks
>> different than the one shown, please include a photo of what the
>> antenna actually looks like.
>> Best of luck.
>> -Glenn
>> KD5MFW
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>> _____ Information from ESET Smart Security, version of virus
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>>
>
>

2268. Re: VoIP phones and such we discussed at the meeting

Yahoo group: DAWG-HSMM
Date: 2011-07-23 19:39:33 UTC
From: ae5lc
Topic: 2260 Message: 2268

Hi Todd,
Last tuesday was my first Digital-Tuesday meeting, I thought it was great.

To continue with my MESH activity, I'd like to load a client sip phone on my Notebook, are there any good ones that you know of? If you don't have a recommendation, I think I'll try BLINK. Any thouhgts?

Do you know if there's a VOIP server somewhere, such that I can test out my client installation? (I can just leave a voicemail or something). Can I access your Astrisk server across the internet? (through VPN or something?).

I have my second Linksys router on the way, so when it gets here I'll try to set up a 2 node MESH at home with PBX-in-a-FLASH on one of the nodes.

Thanks & best regards,
Robert Speckmann AE5LC

--- In DAWG-HSMM@yahoogroups.com, Todd Caldwell <tmCaldwell@...> wrote:
>
> Hi folks,
>
> I checked my records and I had misremembered which store I got my
> VoIP phones.
>
> Turns out it was actually http://www.telephonydepot.com/
>
> Here's the GrandStream GXP280 ($37.20) :
> http://www.telephonydepot.com/Grandstream-GXP-280
>
> And it's PoE capable cousin, the GXP285 ($43.20) :
> http://www.telephonydepot.com/Grandstream-GXP285
>
> Also, the Asterisk install I've been working with is PBX in a Flash.
>
> See here for the software : http://pbxinaflash.net/
>
> and here for a walk thru of the installation:
> http://nerdvittles.com/index.php?p=740
>
> A further warning - this software will format the drives of whatever
> machine you run it on. You do have to give it the go-ahead before it
> starts, but read the screens carefully. DO NOT attempt to install it
> along side other software. It doesn't work that way unless you're
> using some sort of virtualization package.
>
> Finally here's the 15 dB Omni we talked about :

> http://www.titanwirelessonline.com/2-4GHz-15dBi-Omni-p/at-15om-24.htm
>
> 73's
>
> Todd Caldwell - K5SLR
>

2269. Re: [DAWG-HSMM] Re: VoIP phones and such we discussed at the meeting

Yahoo group: DAWG-HSMM
Date: 2011-07-23 23:57:29 UTC
From: Todd Caldwell
Topic: 2260 Message: 2269

Hi Robert,

I haven't used it much myself yet, but a friend - KD5QLN - who installs VoIP systems recommends the 3CX soft phone.

See http://www.3cx.com/VOIP/voip-phone.html

My server is not configured for outside access at present.

You could try the following:

Set up your mesh node with the internet gateway enabled.
Connect your server machine to one of the LAN ports.
Change the "Nat" setting on your node to "5 DMZ ports" and reboot the node.
log back in and go to DHCP and Port Forwarding.
Add a DHCP reservation for the server. For convinience, name it PBX, or perhaps PBX-AE5LC

This should leave you with your server machine having a 10.x.x.x IP address. This is on the mesh side of the node's firewall.

Connect the node's WAN port to your network - ie to the internet.
I recommend this connection be behind a firewall.

Now install PBX in a Flash. This will let the install scripts see the correct address for your PBX. It's easier this way than changing it in numerous places after a conventional install to adjust for the mesh node's DMZ address.

Once the install is complete - it will take quite a while since PBX in a Flash builds all the software from source - you can experiment with it by adding a DHCP reservation for your notebook, and connecting it to another of your mesh node's LAN ports.

There is documentation on adding extensions in PiaF, and I expect there is config information along with the 3CX phone as well.

Once PiaF recognizes the phone, you should be able to leave yourself voicemail on your own server. I believe *97 is the loopback extension as well. That let's you talk to yourself. :)

Hopefully that will get you started.

73's

Todd Caldwell - K5SLR

ae5lc wrote:
> Hi Todd,
> Last tuesday was my first Digital-Tuesday meeting, I thought it was great.
>
> To continue with my MESH activity, I'd like to load a client sip phone on my Notebook, are there any good ones that you know of? If you don't have a recommendation, I think I'll try BLINK. Any thouhgts?
>
> Do you know if there's a VOIP server somewhere, such that I can test out my client installation? (I can just leave a voicemail or something). Can I access your Astrisk server across the internet? (through VPN or something?).
>
> I have my second Linksys router on the way, so when it gets here I'll try to set up a 2 node MESH at home with PBX-in-a-FLASH on one of the nodes.
>
> Thanks & best regards,
> Robert Speckmann AE5LC
>
> --- In DAWG-HSMM@yahoogroups.com, Todd Caldwell <tmCaldwell@...> wrote:
>
>> Hi folks,
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>> I checked my records and I had misremembered which store I got my
>> VoIP phones.
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>> Turns out it was actually http://www.telephonydepot.com/
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>> Here's the GrandStream GXP280 ($37.20) :
>> http://www.telephonydepot.com/Grandstream-GXP-280
>>
>> And it's PoE capable cousin, the GXP285 ($43.20) :
>> http://www.telephonydepot.com/Grandstream-GXP285
>>
>> Also, the Asterisk install I've been working with is PBX in a Flash.
>>
>> See here for the software : http://pbxinaflash.net/
>>
>> and here for a walk thru of the installation:
>> http://nerdvittles.com/index.php?p=740
>>
>> A further warning - this software will format the drives of whatever
>> machine you run it on. You do have to give it the go-ahead before it
>> starts, but read the screens carefully. DO NOT attempt to install it
>> along side other software. It doesn't work that way unless you're
>> using some sort of virtualization package.
>>
>> Finally here's the 15 dB Omni we talked about :
>> http://www.titanwirelessonline.com/2-4GHz-15dBi-Omni-p/at-15om-24.htm
>>
>> 73's
>>

>> Todd Caldwell - K5SLR
>>
>>

2270. Re: [DAWG-HSMM] 20 dbi yagi - Cheap!

Yahoo group: DAWG-HSMM
Date: 2011-07-24 00:44:41 UTC
From: Nikropht
Topic: 2062 Message: 2270

If you want good cost effective directional antenna's get one like this
http://www.balticnetworks.com/14dbi-echo-series-2-4ghz-backfire-antenna.html

-Mike

On Thu, Jul 21, 2011 at 3:49 AM, Dennis Karol <denniskarol@comcast.net>wrote:

> **
>
>
> ** Oops, I was wrong about the shipping. It's too early in the morning for
> me to read "straight", I guess. Maybe it is a real deal after all! I think
> I'm I'm gonna give it a go.
>
>
> On 7/21/2011 4:47 AM, Dennis Karol wrote:
>
>
>
> Did you check that shipping cost? Nearly ninety bucks! It makes the "deal",
> not such a "deal"!
>
> On 7/21/2011 1:09 AM, Glenn Currie wrote:
>
>
> Fine business. I would love for folks to get good deals on gear, but
> hate to see folks selling stuff that does not work.
> Similar 2.4 GHz antennas with similar spacing of the elements and number of
> elements, claim 15 not 20 dB gain.
>
> Testing was easy. We hooked it up and it made no difference at all what
> direction my sample was aimed.
>
> The MFJ 1800 is a roughly similar antenna. I have several and
> electrically / RF wise they work very well. But they are mechanically flimsy
> and really need to be put in a radome tube so they don't wiggle in the wind
> like a leaf.
>
> So I found a similar antenna with a beefy boom that was plenty sturdy,
> but quickly realized it was stout, but did not radiate well. One would hope
> there would be a low cost blend that was mechanically solid - and work well
> for the intended purpose.
>
> Here is a link to the MFJ - works well - we have done links of over 10
> miles with no amps using and WRT54G hardware. But they must have some sort
> of mechanical support added, that does not detract from the electrical

> characteristics.
> <http://www.hamradio.com/detail.cfm?pid=H0-008216><http://www.hamradio.com/detail.cfm?pi
d=H0-008216>
>
> Let folks know what you find.
>
> -Glenn
> KD5MFW
>
> ----------
> *From:* "J.Gordon Beattie, Jr., W2TTT" <w2ttt@...> <w2ttt@...>
> *To:* DAWG-HSMM@yahoogroups.com
> *Sent:* Wednesday, July 20, 2011 11:31 PM
> *Subject:* RE: [DAWG-HSMM] 20 dbi yagi - Cheap!
>
>
> Glenn,
> Well, I think I can wait for Noel (N2OEL) to get his and then decide to
> order if it is decent.
> I can check the directionality very easily.
>
> *Thanks & 73,*
> *Gordon Beattie, W2TTT*
> *201.314.6964***
> ----------
> I would be check this antenna carefully. We have seen similar
> antennas and the boom is, much, much to large in relation to the "active"
> elements to work well. The problem seems to come from an effort to use the
> same boom from lower frequency antennas (larger active elements) and
> translate the design to a higher frequency. The elements of the antenna
> have been reduced, but not the relative size of the boom. Much of the
> length of the elements is inside the boom.
>
> Three of us here in Austin have antennas that look much the same and the
> antennas are not directional at all.
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> If it works well let folks know. If the actual antenna looks different
> than the one shown, please include a photo of what the antenna actually
> looks like.
>
> Best of luck.
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> -Glenn
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>

2271. Re: VoIP phones and such we discussed at the meeting

Yahoo group: DAWG-HSMM
Date: 2011-07-24 06:04:17 UTC
From: ae5lc
Topic: 2260 Message: 2271

Thanks Todd, Great info.

I still have to get up more on the learning-curve, but after I drew myself a picture, I realized that I can do what you're saying with just 1 MESH node, so I don't have to wait for my 2nd LinkSys Router to arrive.

Unfortunately, PiaF wouldn't load in my old ThinkPad (something propietaty in the SMBus EEPROM), so I need to find another guinea pig PC before I can try it (too bad PiaF can't create it's own partition like ubuntu does).

With any luck, I'll make some progress before the next Digital-Tuesday meeting, so I can ask you any questions that I might have :-)

Thanks & best regards,
Robert Speckmann AE5LC

--- In DAWG-HSMM@yahoogroups.com, Todd Caldwell <tmCaldwell@...> wrote:
>
> Hi Robert,
>
> I haven't used it much myself yet, but a friend - KD5QLN - who
> installs VoIP systems recommends the 3CX soft phone.
>
> See http://www.3cx.com/VOIP/voip-phone.html
>
> My server is not configured for outside access at present.
>
> You could try the following:
>
> Set up your mesh node with the internet gateway enabled.
> Connect your server machine to one of the LAN ports.
> Change the "Nat" setting on your node to "5 DMZ ports" and reboot
> the node.
> log back in and go to DHCP and Port Forwarding.
> Add a DHCP reservation for the server. For convinience, name it
> PBX, or perhaps PBX-AE5LC
>
> This should leave you with your server machine having a 10.x.x.x IP
> address. This is on the mesh side of the node's firewall.
>
> Connect the node's WAN port to your network - ie to the internet.
> I recommend this connection be behind a firewall.
>
> Now install PBX in a Flash. This will let the install scripts see
> the correct address for your PBX. It's easier this way than changing it
> in numerous places after a conventional install to adjust for the mesh

> node's DMZ address.
>
> Once the install is complete - it will take quite a while since PBX
> in a Flash builds all the software from source - you can experiment with
> it by adding a DHCP reservation for your notebook, and connecting it to
> another of your mesh node's LAN ports.
>
> There is documentation on adding extensions in PiaF, and I expect
> there is config information along with the 3CX phone as well.
>
> Once PiaF recognizes the phone, you should be able to leave yourself
> voicemail on your own server. I believe *97 is the loopback extension
> as well. That let's you talk to yourself. :)
>
> Hopefully that will get you started.
>
> 73's
>
> Todd Caldwell - K5SLR
>
>
> ae5lc wrote:
> > Hi Todd,
> > Last tuesday was my first Digital-Tuesday meeting, I thought it was great.
> >
> > To continue with my MESH activity, I'd like to load a client sip phone on my Notebook, are there any good ones that you know of? If you don't have a recommendation, I think I'll try BLINK. Any thouhgts?
> >
> > Do you know if there's a VOIP server somewhere, such that I can test out my client installation? (I can just leave a voicemail or something). Can I access your Astrisk server across the internet? (through VPN or something?).
> >
> > I have my second Linksys router on the way, so when it gets here I'll try to set up a 2 node MESH at home with PBX-in-a-FLASH on one of the nodes.
> >
> > Thanks & best regards,
> > Robert Speckmann AE5LC
> >
> > --- In DAWG-HSMM@yahoogroups.com, Todd Caldwell <tmCaldwell@> wrote:
> >
> >> Hi folks,
> >>
> >> I checked my records and I had misremembered which store I got my
> >> VoIP phones.
> >>
> >> Turns out it was actually http://www.telephonydepot.com/
> >>
> >> Here's the GrandStream GXP280 ($37.20) :
> >> http://www.telephonydepot.com/Grandstream-GXP-280

> >>
> >> And it's PoE capable cousin, the GXP285 ($43.20) :
> >> http://www.telephonydepot.com/Grandstream-GXP285
> >>
> >> Also, the Asterisk install I've been working with is PBX in a Flash.
> >>
> >> See here for the software : http://pbxinaflash.net/
> >>
> >> and here for a walk thru of the installation:
> >> http://nerdvittles.com/index.php?p=740
> >>
> >> A further warning - this software will format the drives of whatever
> >> machine you run it on. You do have to give it the go-ahead before it
> >> starts, but read the screens carefully. DO NOT attempt to install it
> >> along side other software. It doesn't work that way unless you're
> >> using some sort of virtualization package.
> >>
> >> Finally here's the 15 dB Omni we talked about :
> >> http://www.titanwirelessonline.com/2-4GHz-15dBi-Omni-p/at-15om-24.htm
> >>
> >> 73's
> >>
> >> Todd Caldwell - K5SLR
> >>
> >>
>

2272. WRT54Gv2 HSMM?

Yahoo group: DAWG-HSMM
Date: 2011-07-25 03:29:38 UTC
From: Floyd Rodgers
Topic: 2248 Message: 2272

I can't seem to easily fond the HSMM main page, so I'll ask here. Is the Linksys WRT54Gv2 any usable with HSMM?
If not, can anyone give me pointers on doing a factory reflash on this unit. It seems a bit confused in it's current condition.

2273. WRT54G2v1 HSMM?

Yahoo group: DAWG-HSMM
Date: 2011-07-25 03:38:05 UTC
From: Floyd Rodgers
Topic: 2248 Message: 2273

revised the model number, I should have looked closer before hitting
send.....

On 7/24/2011 10:29 PM, Floyd Rodgers wrote:
> I can't seem to easily fond the HSMM main page, so I'll ask here. Is
> the Linksys WRT54G2v1 any usable with HSMM?
> If not, can anyone give me pointers on doing a factory reflash on this
> unit. It seems a bit confused in it's current condition.

2274. Re: [DAWG-HSMM] WRT54Gv2 HSMM?

Yahoo group: DAWG-HSMM
Date: 2011-07-25 03:47:50 UTC
From: Kipton Moravec
Topic: 2248 Message: 2274

On Sun, 2011-07-24 at 22:29 -0500, Floyd Rodgers wrote:
> I can't seem to easily fond the HSMM main page, so I'll ask here. Is the
> Linksys WRT54Gv2 any usable with HSMM?
> If not, can anyone give me pointers on doing a factory reflash on this
> unit. It seems a bit confused in it's current condition.

Yes a WRT54G V2 is supported.

The main HSMM page you are looking for is http://www.HSMM-MESH.org

Please explain what you mean by confused. I have no idea what that
means.

The other option is to bring it to the next Digital Tuesday and we will
get it working for you.

Kip

2275. Re: [DAWG-HSMM] WRT54Gv2 HSMM?

Yahoo group: DAWG-HSMM
Date: 2011-07-25 03:51:37 UTC
From: Floyd Rodgers
Topic: 2248 Message: 2275

Sorry, it's actually a wrt54g2 v1. Confused means it appears to be transmitting a wifi signal, but I can't seem to get connected to it. On the wired side, net link lights look ok, but no dhcp. Doesn't respond to its normal config address either even after a hard reset.

On 7/24/2011 10:47 PM, Kipton Moravec wrote:
>
> On Sun, 2011-07-24 at 22:29 -0500, Floyd Rodgers wrote:
> > I can't seem to easily fond the HSMM main page, so I'll ask here. Is
> the
> > Linksys WRT54Gv2 any usable with HSMM?
> > If not, can anyone give me pointers on doing a factory reflash on this
> > unit. It seems a bit confused in it's current condition.
>
> Yes a WRT54G V2 is supported.
>
> The main HSMM page you are looking for is http://www.HSMM-MESH.org
>
> Please explain what you mean by confused. I have no idea what that
> means.
>
> The other option is to bring it to the next Digital Tuesday and we will
> get it working for you.
>
> Kip
>
>

2276. Re: [DAWG-HSMM] WRT54G2v1 HSMM?

Yahoo group: DAWG-HSMM
Date: 2011-07-25 03:55:00 UTC
From: Kipton Moravec
Topic: 2248 Message: 2276

On Sun, 2011-07-24 at 22:38 -0500, Floyd Rodgers wrote:
> revised the model number, I should have looked closer before hitting
> send.....
>
> On 7/24/2011 10:29 PM, Floyd Rodgers wrote:
> > I can't seem to easily fond the HSMM main page, so I'll ask here. Is
> > the Linksys WRT54G2v1 any usable with HSMM?
> > If not, can anyone give me pointers on doing a factory reflash on this
> > unit. It seems a bit confused in it's current condition.

The WRT54G2 V 1 has 2 MB of Flash. That is not enough for HSMM-MESH. You need 4 MB (or more)

Sorry.

Kip

2277. Re: [DAWG-HSMM] 20 dbi yagi - Cheap!

Yahoo group: DAWG-HSMM
Date: 2011-07-25 13:53:26 UTC
From: W2PM
Topic: 2062 Message: 2277

I wonder if the possible directivity issues would be from feed line coupling rather than improper boom length. Ive build hand held 430 MHz yagis and seen huge pattern differences just by more careful feed line placement and choking. This is why baluns are used on Hf antennas too.

Sent from my iPad

On Jul 21, 2011, at 0:31, "J.Gordon Beattie, Jr., W2TTT" <w2ttt@...> wrote:

>
>
> Glenn,
> Well, I think I can wait for Noel (N2OEL) to get his and then decide to order if it is decent.
> I can check the directionality very easily.
>
> Thanks & 73,
> Gordon Beattie, W2TTT
> 201.314.6964
> I would be check this antenna carefully. We have seen similar antennas and the boom is, much, much to large in relation to the "active" elements to work well. The problem seems to come from an effort to use the same boom from lower frequency antennas (larger active elements) and translate the design to a higher frequency. The elements of the antenna have been reduced, but not the relative size of the boom. Much of the length of the elements is inside the boom.
>
> Three of us here in Austin have antennas that look much the same and the antennas are not directional at all.
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> If it works well let folks know. If the actual antenna looks different than the one shown, please include a photo of what the antenna actually looks like.
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> Best of luck.
>
> -Glenn
> KD5MFW
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2278. VoIP phones and such we discussed at the meeting

Yahoo group: DAWG-HSMM
Date: 2011-07-20 05:53:45 UTC
From: Todd Caldwell
Topic: 2260 Message: 2278

Hi folks,

I checked my records and I had misremembered which store I got my
VoIP phones.

Turns out it was actually http://www.telephonydepot.com/

Here's the GrandStream GXP280 ($37.20) :
http://www.telephonydepot.com/Grandstream-GXP-280
And it's PoE capable cousin, the GXP285 ($43.20) :
http://www.telephonydepot.com/Grandstream-GXP285

Also, the Asterisk install I've been working with is PBX in a Flash.

See here for the software : http://pbxinaflash.net/

and here for a walk thru of the installation:
http://nerdvittles.com/index.php?p=740

A further warning - this software will format the drives of whatever
machine you run it on. You do have to give it the go-ahead before it
starts, but read the screens carefully. DO NOT attempt to install it
along side other software. It doesn't work that way unless you're
using some sort of virtualization package.

Finally here's the 15 dB Omni we talked about :
http://www.titanwirelessonline.com/2-4GHz-15dBi-Omni-p/at-15om-24.htm

73's

Todd Caldwell - K5SLR

2279. Re: [DAWG-HSMM] 20 dbi yagi - Cheap!

Yahoo group: DAWG-HSMM
Date: 2011-07-24 02:34:01 UTC
From: Kipton Moravec
Topic: 2062 Message: 2279

If you want to spend that much you would be better off getting a 15 db
Rootenna.

http://www.titanwirelessonline.com/PacWireless-2-4GHz-15dBi-RooTenna-p/at-24gh.htm

It includes a waterproof housing and your cable from router to antenna
is 6" so you do not suffer a lot of cable loss.

Kip

On Sat, 2011-07-23 at 19:44 -0500, Nikropht wrote:
>
>
> If you want good cost effective directional antenna's get one like
> this http://www.balticnetworks.com/14dbi-echo-series-2-4ghz-backfire-antenna.html
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> -Mike
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> On Thu, Jul 21, 2011 at 3:49 AM, Dennis Karol
> <denniskarol@...> wrote:
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> Oops, I was wrong about the shipping. It's too early in the
> morning for me to read "straight", I guess. Maybe it is a real
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> > Did you check that shipping cost? Nearly ninety bucks! It
> > makes the "deal", not such a "deal"!
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> > On 7/21/2011 1:09 AM, Glenn Currie wrote:
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> > > Fine business. I would love for folks to get good deals
> > > on gear, but hate to see folks selling stuff that does not
> > > work.
> > > Similar 2.4 GHz antennas with similar spacing of the
> > > elements and number of elements, claim 15 not 20 dB gain.
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> > > Testing was easy. We hooked it up and it made no
> > > difference at all what direction my sample was aimed.

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> > >
I haven't used it much myself yet, but a friend - KD5QLN - who
installs VoIP systems recommends the 3CX soft phone.
> > > The MFJ 1800 is a roughly similar antenna. I have several
> > > and electrically / RF wise they work very well. But they
> > > are mechanically flimsy and really need to be put in a
> > > radome tube so they don't wiggle in the wind like a leaf.
> > >
> > >
> > > So I found a similar antenna with a beefy boom that was
> > > plenty sturdy, but quickly realized it was stout, but did
> > > not radiate well. One would hope there would be a low
> > > cost blend that was mechanically solid - and work well for
> > > the intended purpose.
> > >
> > >
> > > Here is a link to the MFJ - works well - we have done
> > > links of over 10 miles with no amps using and WRT54G
> > > hardware. But they must have some sort of mechanical
> > > support added, that does not detract from the electrical
> > > characteristics.
> > > <http://www.hamradio.com/detail.cfm?pid=H0-008216>
> > >
> > >
> > >
> > > Let folks know what you find.
> > >
> > >
> > > -Glenn
> > > KD5MFW
> > >
> > >
> > >
> > >
> > > _____
> > > From: "J.Gordon Beattie, Jr., W2TTT" <w2ttt@...>
> > > To: DAWG-HSMM@yahoogroups.com
> > > Sent: Wednesday, July 20, 2011 11:31 PM
> > > Subject: RE: [DAWG-HSMM] 20 dbi yagi - Cheap!
> > >
> > >
> > >
> > > Glenn,
> > > Well, I think I can wait for Noel (N2OEL) to get his and
> > > then decide to order if it is decent.
> > > I can check the directionality very easily.
> > >
> > > Thanks & 73,

> > > Gordon Beattie, W2TTT
> > > 201.314.6964
> > >
> > > _____
> > > I would be check this antenna carefully. We have seen
> > > similar antennas and the boom is, much, much to large in
> > > relation to the "active" elements to work well. The
> > > problem seems to come from an effort to use the same boom
> > > from lower frequency antennas (larger active elements) and
> > > translate the design to a higher frequency. The elements
> > > of the antenna have been reduced, but not the relative
> > > size of the boom. Much of the length of the elements is
> > > inside the boom.
> > >
> > > Three of us here in Austin have antennas that look much
> > > the same and the antennas are not directional at all.
> > >
> > > If it works well let folks know. If the actual antenna
> > > looks different than the one shown, please include a photo
> > > of what the antenna actually looks like.
> > >
> > > Best of luck.
> > >
> > > -Glenn
> > > KD5MFW
> > >
> > >
> > >
> > > _____ Information from ESET Smart Security, version
> > > of virus signature database 6311 (20110720) _____
> > >
> > > The message was checked by ESET Smart Security.
> > >
> > > http://www.eset.com
> > >
> > >
> > >
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2280. RE: [Bulk] [DAWG-HSMM] Re: Flag pole car mounts

Yahoo group: DAWG-HSMM
Date: 2011-07-09 21:06:20 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2220 Message: 2280

Guys,

Depending on what you want to put up, you might consider either a large pipe flange and a short bit of threaded pipe (nipple) bolted to a plate or board or a Speed-Rail flange bolted to a plate or board.

Of course if any of these is too light-weight, then you can just have something welded up for you!

:-)

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of k5srt
Sent: Saturday, July 09, 2011 6:29 PM
To: DAWG-HSMM@yahoogroups.com
Subject: [Bulk] [DAWG-HSMM] Re: Flag pole car mounts

Todd,

I'd like to get one and possibly a couple of people from the Rockwell Collins Amature Radio club in Richardson TX have been talking about getting the bases and then the poles (I could check with them).

I used one during the Wild Ride (Thanks Doug) and it worked great (has been returned).

If you need to place the order soon just get me two. Please let me know how the price and shipping works out. When do you think you might order?

, 73

S. Ross Terry - McKinney TX
K5SRT@... <mailto:K5SRT%40ARRL.NET>
Ross@... <mailto:Ross%40texasterrys.com>

--- In DAWG-HSMM@yahoogroups.com <mailto:DAWG-HSMM%40yahoogroups.com> , Todd Caldwell <tmCaldwell@...> wrote:
>
> I recall us discussing - perhaps at HamCom - that there might be
> interest in putting together a group order for the park-a-car-on-it sort
> of flagpole/mast bases that several in the group have.

>
> Specifically, this is the mount in question:
> http://www.united-states-flag.com/flag-pole-car-stand.html#
<http://www.united-states-flag.com/flag-pole-car-stand.html>
>
> I've polled the Mesquite group and we have more than the 6 units
> required to get the $23 price already.
>
> Is there interest in this group (DFW local only) still ?
>
> If so, perhaps we can coordinate.
>
> 73's
>
> Todd Caldwell - K5SLR
> Mesquite, TX
>

_____ Information from ESET Smart Security, version of virus signature
database 6279 (20110709) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature
database 6280 (20110709) _____

The message was checked by ESET Smart Security.

http://www.eset.com

2281. Re: [DAWG-HSMM] 20 dbi yagi - Cheap!

Yahoo group: DAWG-HSMM
Date: 2011-07-28 21:26:50 UTC
From: Nikropht
Topic: 2062 Message: 2281

That is a flat panel antenna it is not very directional.

-Mike

On Sat, Jul 23, 2011 at 9:34 PM, Kipton Moravec <kip@...> wrote:

> **
>
>
> If you want to spend that much you would be better off getting a 15 db
> Rootenna.
>
>
> http://www.titanwirelessonline.com/PacWireless-2-4GHz-15dBi-RooTenna-p/at-24gh.htm
>
> It includes a waterproof housing and your cable from router to antenna
> is 6" so you do not suffer a lot of cable loss.
>
> Kip
>
>
> On Sat, 2011-07-23 at 19:44 -0500, Nikropht wrote:
> >
> >
> > If you want good cost effective directional antenna's get one like
> > this
> http://www.balticnetworks.com/14dbi-echo-series-2-4ghz-backfire-antenna.html
> >
> >
> > -Mike
> >
> > On Thu, Jul 21, 2011 at 3:49 AM, Dennis Karol
> > <denniskarol@...> wrote:
> >
> > Oops, I was wrong about the shipping. It's too early in the
> > morning for me to read "straight", I guess. Maybe it is a real
> > deal after all! I think I'm I'm gonna give it a go.
> >
> >
> >
> >
> > On 7/21/2011 4:47 AM, Dennis Karol wrote:
> > >
> > > Did you check that shipping cost? Nearly ninety bucks! It
> > > makes the "deal", not such a "deal"!
> > >

> > > On 7/21/2011 1:09 AM, Glenn Currie wrote:
> > >
> > > >
> > > > Fine business. I would love for folks to get good deals
> > > > on gear, but hate to see folks selling stuff that does not
> > > > work.
> > > > Similar 2.4 GHz antennas with similar spacing of the
> > > > elements and number of elements, claim 15 not 20 dB gain.
> > > >
> > > >
> > > > Testing was easy. We hooked it up and it made no
> > > > difference at all what direction my sample was aimed.
> > > >
> > > >
> > > >
> I haven't used it much myself yet, but a friend - KD5QLN - who
> installs VoIP systems recommends the 3CX soft phone.
>
> > > > The MFJ 1800 is a roughly similar antenna. I have several
> > > > and electrically / RF wise they work very well. But they
> > > > are mechanically flimsy and really need to be put in a
> > > > radome tube so they don't wiggle in the wind like a leaf.
> > > >
> > > >
> > > > So I found a similar antenna with a beefy boom that was
> > > > plenty sturdy, but quickly realized it was stout, but did
> > > > not radiate well. One would hope there would be a low
> > > > cost blend that was mechanically solid - and work well for
> > > > the intended purpose.
> > > >
> > > >
> > > > Here is a link to the MFJ - works well - we have done
> > > > links of over 10 miles with no amps using and WRT54G
> > > > hardware. But they must have some sort of mechanical
> > > > support added, that does not detract from the electrical
> > > > characteristics.
> > > > <http://www.hamradio.com/detail.cfm?pid=H0-008216>
> > > >
> > > >
> > > >
> > > > Let folks know what you find.
> > > >
> > > >
> > > > -Glenn
> > > > KD5MFW
> > > >
> > > >
> > > >
> > > >
> > > > _____

> > > > From: "J.Gordon Beattie, Jr., W2TTT" <w2ttt@...>
> > > > To: DAWG-HSMM@yahoogroups.com
> > > > Sent: Wednesday, July 20, 2011 11:31 PM
> > > > Subject: RE: [DAWG-HSMM] 20 dbi yagi - Cheap!
> > > >
> > > >
> > > >
> > > > Glenn,
> > > > Well, I think I can wait for Noel (N2OEL) to get his and
> > > > then decide to order if it is decent.
> > > > I can check the directionality very easily.
> > > >
> > > > Thanks & 73,
> > > > Gordon Beattie, W2TTT
> > > > 201.314.6964
> > > >
> > > > _____
> > > > I would be check this antenna carefully. We have seen
> > > > similar antennas and the boom is, much, much to large in
> > > > relation to the "active" elements to work well. The
> > > > problem seems to come from an effort to use the same boom
> > > > from lower frequency antennas (larger active elements) and
> > > > translate the design to a higher frequency. The elements
> > > > of the antenna have been reduced, but not the relative
> > > > size of the boom. Much of the length of the elements is
> > > > inside the boom.
> > > >
> > > > Three of us here in Austin have antennas that look much
> > > > the same and the antennas are not directional at all.
> > > >
> > > > If it works well let folks know. If the actual antenna
> > > > looks different than the one shown, please include a photo
> > > > of what the antenna actually looks like.
> > > >
> > > > Best of luck.
> > > >
> > > > -Glenn
> > > > KD5MFW
> > > >
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> > > >
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> > > >
> > > > http://www.eset.com
> > > >
> > > >
> > > >

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2282. sstucam

Yahoo group: DAWG-HSMM
Date: 2011-07-29 14:59:00 UTC
From: jeff
Topic: 2282 Message: 2282

What would I need or how would I connect this cam to a hsmm router? I would like to install this cam in the box on the tower with the router.
http://wiki.argentdata.com/index.php/SSTVCAM
Thanks,
Jeff
N5XHI

2283. Re: [DAWG-HSMM] 20 dbi yagi - Cheap!

Yahoo group: DAWG-HSMM
Date: 2011-07-29 16:44:00 UTC
From: Todd Caldwell
Topic: 2062 Message: 2283

Depends on the gain, Mike.

Data for the 14 dB Rootenna 14:
http://www.fab-corp.com/pdf/rootenna.pdf
35 deg E-plane, 36 deg H-plane - at the 3 dB points

Data for the 19 dB Rootenna:
http://www.fab-corp.com/pdf/r2t24-19.pdf
19 deg E-plane, 16 deg H-plane - at the 3 dB points

The Pac Wireless PAWES24-14 that Mike recommended:
http://www.balticnetworks.com/docs/pawes24_data_sheet-v2.pdf
26 deg (plane not specified) at the 3 dB points.
But take a look at the plot. The specified beamwidth doesn't tell the
whole story. There's a lot of energy off to the sides.

The Rootenna is a better choice. Especially considering it has a
waterproof case built in for the radio.
And if the 14 dB version is not enough gain, step up to the 19 dB
version - and be prepared for it to be hard to aim. :)

73's

Todd - K5SLR

Nikropht wrote:
> <!-- /* start of attachment style */ .ygrp-photo-title{ clear: both;
> font-size: smaller; height: 15px; overflow: hidden; text-align:
> center; width: 75px; } div.ygrp-photo{ background-position: center;
> background-repeat: no-repeat; background-color: white; border: 1px
> solid black; height: 62px; width: 62px; } div.photo-title a,
> div.photo-title a:active, div.photo-title a:hover, div.photo-title
> a:visited { text-decoration: none; } div.attach-table div.attach-row {
> clear: both; } div.attach-table div.attach-row div { float: left; /*
> margin: 2px;*/ } p { clear: both; padding: 15px 0 3px 0; overflow:
> hidden; } div.ygrp-file { width: 30px; valign: middle; }
> div.attach-table div.attach-row div div a { text-decoration: none; }
> div.attach-table div.attach-row div div span { font-weight: normal; }
> div.ygrp-file-title { font-weight: bold; } /* end of attachment style
> */ --> <!-- #ygrp-mkp { border: 1px solid #d8d8d8; font-family: Arial;
> margin: 10px 0; padding: 0 10px; } #ygrp-mkp hr { border: 1px solid
> #d8d8d8; } #ygrp-mkp #hd { color: #628c2a; font-size: 85%;
> font-weight: 700; line-height: 122%; margin: 10px 0; } #ygrp-mkp #ads
> { margin-bottom: 10px; } #ygrp-mkp .ad { padding: 0 0; } #ygrp-mkp .ad
> p { margin: 0; } #ygrp-mkp .ad a { color: #0000ff; text-decoration:
> none; } -->
>

> That is a flat panel antenna it is not very directional.
>
> -Mike
>
> On Sat, Jul 23, 2011 at 9:34 PM, Kipton Moravec <kip@...
> <mailto:kip@...>> wrote:
>
> If you want to spend that much you would be better off getting a 15 db
> Rootenna.
>
> http://www.titanwirelessonline.com/PacWireless-2-4GHz-15dBi-RooTenna-p/at-24gh.htm
>
> It includes a waterproof housing and your cable from router to antenna
> is 6" so you do not suffer a lot of cable loss.
>
> Kip
>

2284. Antenna bases have arrived

Yahoo group: DAWG-HSMM
Date: 2011-07-29 16:52:21 UTC
From: Todd Caldwell
Topic: 2284 Message: 2284

BTW, the shipment of flagpole antenna bases have arrived.

I'll bring a batch to Digital Tuesday.
Those of you that ordered them, let me know if you'll be there so I can make sure to bring enough.

Todd - K5SLR

2285. Digital Tuesday 1, 8/2/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-07-29 23:59:14 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2285 Message: 2285

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday August 2, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
(The next reminder for this event will be sent in 3 days, 1 minute.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2286. Harbor Freight Sale

Yahoo group: DAWG-HSMM
Date: 2011-07-31 19:15:36 UTC
From: James C. Duram
Topic: 2286 Message: 2286

Today is the last day for the sale on the flag poles. My store in Michigan is all out. Got a rain check for when they come back in stock.

Jim, K8COP

2287. Digital Tuesday 1, 8/2/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-08-02 00:00:57 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2285 Message: 2287

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday August 2, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2288. Fwd: [ARRL_NTX-ClubLeadership] Re: Public Service Op - Aug 21 (half day)

Yahoo group: DAWG-HSMM
Date: 2011-08-02 00:16:29 UTC
From: Kilgore
Topic: 2288 Message: 2288

Allright DAWG - we were looking for an exercise to try out HSMM-MESH. Look at the route and check the altitude scale. If we could get a gateway connection to the internet in Wills Point, we could try to connect all the rest stops. And be a voice operator also.

Doug Kilgore

-------- Original Message --------
Subject: [ARRL_NTX-ClubLeadership] Re: Public Service Op - Aug 21 (half day)
Date: Mon, 1 Aug 2011 14:40:42 -0700 (PDT)
From: Andy Carstarphen <andycarstarphen@...>
Reply-To: ARRL_NTX-ClubLeadership@yahoogroups.com
To: exeltech <exeltech@...>
CC: Dallas_County_EMCOM@yahoogroups.com <Dallas_County_EMCOM@yahoogroups.com>, DallasAreaRACESCouncil@yahoogroups.com <DallasAreaRACESCouncil@yahoogroups.com>, HAM ARRL North Texas Club Leadership <ARRL_NTX-ClubLeadership@yahoogroups.com>, HAM mesquiteham <mesquiteham@yahoogroups.com>, HAM Mesquite EMCOM <mesquite_emcom@yahoogroups.com>

Hey Dan. Before I send out a shotgun broadcast, what type of resources do you need? Mobile operators, portable, SAG? Is there a nearby repeater that can be used or do we need to provide one?

Andy Carstarphen
972-216-0157 Office

From: exeltech <exeltech@...>
To: andycarstarphen@...
Sent: Monday, August 1, 2011 4:11 PM
Subject: Public Service Op - Aug 21 (half day)

Hello Andy,

A non-profit organization is sponsoring a mini-triathlon at Lake Tawakoni on Sunday, Aug 21 for ~250 racers. Several weeks ago, they sent e-mail letters requesting assistance to more than a dozen ham radio clubs on the east side of the Metroplex, and got ZERO replies. This isn't zero as in "sorry, we can't", but zero as in no letters back from anyone -- period.

A ham friend of mine suggested contacting Dallas RACES for help.

The race organizers need 12-15 hams for half a day (7:00 am - noon) on the 21st. That's all. Hams will be at various checkpoints to provide the usual "just in case" communications. It's especially needed from this area as cell phone coverage is extremely spotty at best - and in some cases - nil.

Power for a VHF/UHF base station could be provided by my solar trailer (sine wave inverters). I've got 120Vac and 12Vdc at the trailer, but no antennas (yet). I also have a limited quantity of portable solar DC available for remote recharging of hand-helds (lighter-plug adapters). I'm not sufficiently familiar with that area to know how well (or poorly) repeaters cover the region, but I suspect HTs are all that would be needed, as I'm presuming communication would be point-to-point.

Race info is here:
http://www.bigearthracing.com/event-spring-fall-classic.php

Info on my solar trailer is here:
http://www.txses.org/NTREG/projects.htm

Thoughts/comments/feedback sincerely appreciated.

Thanks.

Dan
exeltech@... <mailto:exeltech@...>
817.595.4969 (10a-5p, M-F)

2289. Re: [DAWG-HSMM] WRT54Gv2 HSMM?

Yahoo group: DAWG-HSMM
Date: 2011-08-04 00:25:35 UTC
From: Bob Diepenbrock
Topic: 2248 Message: 2289

Ouch...

Well, in your case it may be possible to recover your unit by connecting to
it using a wired connection and not try to connect via the WiFi connection.

What SSID is it transmitting?

-= Bob =-

On Sun, Jul 24, 2011 at 10:51 PM, Floyd Rodgers <kc5qbc@...> wrote:

> **
>
>
> **Sorry, it's actually a wrt54g2 v1. Confused means it appears to be
> transmitting a wifi signal, but I can't seem to get connected to it. On the
> wired side, net link lights look ok, but no dhcp. Doesn't respond to its
> normal config address either even after a hard reset.
>
>
> On 7/24/2011 10:47 PM, Kipton Moravec wrote:
>
>
>
> On Sun, 2011-07-24 at 22:29 -0500, Floyd Rodgers wrote:
> > I can't seem to easily fond the HSMM main page, so I'll ask here. Is the
> > Linksys WRT54Gv2 any usable with HSMM?
> > If not, can anyone give me pointers on doing a factory reflash on this
> > unit. It seems a bit confused in it's current condition.
>
> Yes a WRT54G V2 is supported.
>
> The main HSMM page you are looking for is
http://www.HSMM-MESH.org<http://www.hsmm-mesh.org/>
>
> Please explain what you mean by confused. I have no idea what that
> means.
>
> The other option is to bring it to the next Digital Tuesday and we will
> get it working for you.
>
> Kip
>
>
>

2290. camera

Yahoo group: DAWG-HSMM
Date: 2011-08-05 23:45:02 UTC
From: jeff
Topic: 2290 Message: 2290

What is the best camera to use in the mesh? IP wireless, IP wired, USB Webcam.
Thanks,
Jeff N5XHI

2291. Re: [DAWG-HSMM] camera

Yahoo group: DAWG-HSMM
Date: 2011-08-06 00:18:22 UTC
From: Rusty Haddock
Topic: 2290 Message: 2291

```
jeff wrote:
>What is the best camera to use in the mesh? IP wireless, IP wired, USB Webcam.
>Thanks,

If you want the camera "advertised" on the mesh, an IP wired would be
the "best". Plug it into one of your node's LAN ports, and use the port
forwarding page in Setup to have an IP address reserved for your camera
and the "advertising" setup as well.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2292. Re: camera

Yahoo group: DAWG-HSMM
Date: 2011-08-06 12:56:13 UTC
From: WILLIAM H WALLACE
Topic: 2290 Message: 2292

Rusty, can you explain how you use the Advertize feature and what it does?
I cannot find any information on it on the web page or the Yahoo Group

William H. Wallace
WOWHW

2293. Re: camera

Yahoo group: DAWG-HSMM
Date: 2011-08-06 13:37:14 UTC
From: kb1tce
Topic: 2290 Message: 2293

I just ordered an ACTi TCM-4201 1.3 Megapixel wired IP cube camera with replaceable lens. Price was above the bottom of the line IP cameras but somewhat reasonable at $265. Data at http://www.acti.com/product/detail/Cube_Camera/TCM-4201

Steve, KB1TCE

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> jeff wrote:
> >What is the best camera to use in the mesh? IP wireless, IP wired, USB Webcam.
> >Thanks,
>
> If you want the camera "advertised" on the mesh, an IP wired would be
> the "best". Plug it into one of your node's LAN ports, and use the port
> forwarding page in Setup to have an IP address reserved for your camera
> and the "advertising" setup as well.
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>

2294. Re: [DAWG-HSMM] Re: camera

Yahoo group: DAWG-HSMM
Date: 2011-08-06 22:16:04 UTC
From: Rusty Haddock
Topic: 2290 Message: 2294

WILLIAM H WALLACE wrote:
>Rusty, can you explain how you use the Advertize feature and what it does?
>I cannot find any information on it on the web page or the Yahoo Group

Sure Bill.

Advertising can tell the mesh that a given node has a service. This service could be something like a web server, a mail server, a file server, or a camera; just whatever you'd want to attach to a network and allow people (or your computer) to use. The advertisement will show up on the "Mesh Status" web page of all the nodes within a mesh. It will be listed next to the node providing that service. Notice the "Services" column for the Local Hosts, Remote Hosts, and Current Neighbors lists on the mesh status page.

Most of the time, what's advertised will be a link that you can click on in your web browser to access. Other times it may be a service that can't be accessed with a web browser but another program on your computer can use. This might be something like a GPS that can provide your computer with the current time. In that case, no link will be provide but, at least you know it's there to configure your NTP daemon (Network Time Protocol) to access.

OK, let's say I have an IP Camera attached to one of the LAN ports on a mesh node and I'd like the rest of the mesh to know about it. Provided that the camera is powered up and ethernet'd into the node, it will probably ask the node for an IP address. Naturally, this will be invisible to you. If it doesn't then the static IP address of the camera will need to be in the range of addresses used by the LAN ports, 172.27.0.* but not by the DHCP server (e.g. 172.27.0.26 to 172.27.0.254). Naturally, the node's exact configuration may vary but these are the default numbers.

Now, point your browser to the node's webpage (e.g. 10.4.59.73:8080) and then go to the "Setup" page and then to the "Port Forwarding, DHCP, and Services" page.

We need to first reserve an address in the DHCP server if the camera is using DHCP. If not, we can skip this step. Select the IP Address of the camera in the pull down selection box under "DHCP Address Reservations". If the camera provides a hostname when it requests an IP address, the hostname will show up there amongst the IP addresses. If no hostname is present then enter a hostname to the left of the IP address that your camera will be known by to the rest of the mesh. Select it and then hit the [ADD] button just to the right. We do this so that each time the camera is powered up or plugged into the node it will always get

the same IP address so that the port forwarding is greatly simplified.

OK, I've mentioned port forwarding -- that's our next step. For this example we will be forwarding port 12345 on the WiFi side of our node to port 80 of our camera. Your mileage may vary. If no other host on the node's LAN ports is registered to use (or will be using) port 80, feel free to use it instead of port 12345. The web server for the node itself is 8080 so don't use that one either. It's best to pick a port well above port numbers used by services provided by the mesh node. The highest port number you can use is 65535.

Under "Port Forwarding" we'll leave the "Interface" at Wifi and the "Type" at TCP. If this node is attached to another network via the WAN port you might want to forward connections from there, the WiFi , or both. Select accordingly. As for "Type" you can select TCP, UDP, or Both depending on the protocol used by your device. Most, if not all cameras, operate using TCP only. Again, select accordingly.

Enter '12345' into the "Outside Port" box, select the LAN IP address of your camera, and enter the LAN Port (the TCP port your camera uses, usually port 80), and click on the [Add] button just to the right of the "LAN Port" box. Another set of input boxes should appear below your entry if everything was accepted.

Leave the DMZ Server set to None as that is another, yet similar, tutorial.

Under "Advertised Services" enter a name for your service, say something like "Bills Camera". It's a description of the service you're offering. Next there's a checkbox that indicates a clickable link should be displayed for this service. For something that a browser can view, it's best to check that box.

After that is the URL protocol, typically http: or something like ftp: for an FTP server or smb: for a Windows Share folder. Now all browsers understand the smb: protocol but many can be made to do it but it's extra work and browser specific. For our IP camera enter "http". Oh, if the service is something like a GPS providing time and date information, there's no way to link to that so... the Link box and what's beyond are basically moot and there's no need to fill in the remainder of the input boxes.

The port number needs to be filled in for a link, even if you use http: as the protocol and you're forwarding the same port that the camera uses. In our example here enter "12345" as this is the port as seen from the WiFi or WAN ports.

The next box is for the case where the URL needs a more specific path. Generally for web or file servers but not in this example. An example would be something like smb://ae5ae-files/pet_pictures

Now click on the [Add] button and another set of input boxes will appear.

If everything looks correct now click on the [Save Changes] button near the top of the page. Yes, we'd like to make these settings active and save them across reboots.

Within a minute or so you can check the Mesh Status page of any node on your mesh and see the service you just defined right next to the mesh node to which you added the service (e.g. Bills Camera). For the camera there is a clickable link that will your browser straight to your camera's web interface.

You now be done! Your camera is accessible across your mess, er.. mesh.

Bill, try these instructions on for size and lemme know how it goes.
I'll see about putting these on the HSMM-MESH website.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2295. Re: [DAWG-HSMM] Re: camera

Yahoo group: DAWG-HSMM
Date: 2011-08-06 22:42:58 UTC
From: Rusty Haddock
Topic: 2290 Message: 2295

Rusty Haddock wrote:
>...
>We need to first reserve an address in the DHCP server if the camera is
>using DHCP. If not, we can skip this step. Select the IP Address of the
>camera in the pull down selection box under "DHCP Address Reservations".
>If the camera provides a hostname when it requests an IP address, the
>hostname will show up there amongst the IP addresses. If no hostname is
>present then enter a hostname to the left of the IP address that your
>camera will be known by to the rest of the mesh. Select it and then

Minor correction -- hostname will not used by the rest of the mesh.
Ignore that statement. I'm thinking DMZ and this was not about putting
a host into the DMZ. Sorry.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2296. Re: camera

Yahoo group: DAWG-HSMM
Date: 2011-08-07 14:27:11 UTC
From: WILLIAM H WALLACE
Topic: 2290 Message: 2296

Wow, That's the greatest explanation I have seen. Thank you Rusty..

William H. Wallace
New Call W0WHW ex KC0TGY

2297. Re: [DAWG-HSMM] Re: camera

Yahoo group: DAWG-HSMM
Date: 2011-08-07 21:05:53 UTC
From: Bill Vodall
Topic: 2290 Message: 2297

> Advertising can tell the mesh that a given node has a service. This
> service could be something like a web server, a mail server, a file
> server, or a camera; just whatever you'd want to attach to a network
> and allow people (or your computer) to use. The advertisement will
> show up on the "Mesh Status" web page of all the nodes within a mesh.
> It will be listed next to the node providing that service. Notice the
> "Services" column for the Local Hosts, Remote Hosts, and Current Neighbors
> lists on the mesh status page.

Is this something DAWG-HSMM specific or a standard part of the existing Mesh software? Is the advertising of the resources coming from the devices (like the camera) or is it configured in the hosting Mesh Node? Similarly, is the web page being generated part of the MESH system or some other tool?

Bonjour and/or Avanti?

Are any special techniques being used to get the resource advertisements to flood the mesh system or do they stay at each node?

This is a very valuable feature needed to show what's available on the system. I've been researching it and even to the point of setting up some APRS packets to broadcast the resources. A real IP solution would certainly be a good thing to have a handle on.

73
Bill - WA7NWP

2298. Re: [DAWG-HSMM] Re: camera

Yahoo group: DAWG-HSMM
Date: 2011-08-08 02:54:20 UTC
From: Rusty Haddock
Topic: 2290 Message: 2298

Bill Vodall wrote:
>Is this something DAWG-HSMM specific or a standard part of the
>existing Mesh software?

Standard part of the existing HSMM-MESH firmware. The DAWG (Dallas Area Working Group) does not maintain any mesh software.

>Is the advertising of the resources coming
>from the devices (like the camera) or is it configured in the hosting
>Mesh Node?

The hosting Mesh node.

>Similarly, is the web page being generated part of the MESH system or
>some other tool?

Bill, have you looked at the webpages on a mesh node???
The webpage is generated as part of the HSMM-MESH firmware; it's the mesh status page.

>Bonjour and/or Avanti?

Neither.

>Are any special techniques being used to get the resource
>advertisements to flood the mesh system or do they stay at each node?

No special technique -- the OLSR software sends the list of services around the mesh.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2299. Special Event Station Notice - Sept 16,17,18 - K5B - Plano,TX Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2011-08-10 05:57:55 UTC
From: Patrick Soileau ND5C
Topic: 2299 Message: 2299

From: AE5NO Ron <ae5no.ron@...>
Subject: Special Event Station Notice
To: k5b_pbf@...
Cc: "'Greg Evans'" <k5gtx@...>
Date: Tuesday, August 9, 2011, 11:03 PM

Please add this to you club newsletter and/or your website.

**********FOR IMMEDIATE RELEASE**********

Special Event Station K5B – Plano Balloon Festival

September 16, 2011 – September 18, 2011 – Celebrating the 31st annual Plano Balloon Festival, members of the Plano Amateur Radio Klub (PARK) and area amateur radio operators will be QRV as K5B during the festival. Frequencies plus or minus QRM: 7.255, 14.255, 21.355 and on the club repeater, WD5ERD on 147.180 + PL 107.2 and via Echolink at K5PRK. QSL with SASE to K5PRK .

More information formation will be available on our website at www.k5prk.net/k5b.

****

73,
Ron, AE5NO
281-961-4570
ae5no.ron@...
www.qrz.com/db/ae5no

2300. Digital Tuesday 2, 8/16/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-08-12 23:58:29 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2300 Message: 2300

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday August 16, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
(The next reminder for this event will be sent in 3 days, 1 minute.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2301. Re: [DAWG-HSMM] Digital Tuesday 2, 8/16/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-08-14 23:35:58 UTC
From: Jimmy Dominguez
Topic: 2300 Message: 2301

I will miss this one; will be in MO dropping off the youngest daughter as school. Wahoo !!!!

On Fri, Aug 12, 2011 at 6:58 PM, <DAWG-HSMM@yahoogroups.com> wrote:

>
>
> Reminder from: *DAWG-HSMM Yahoo! Group<http://groups.yahoo.com/group/DAWG-HSMM/cal>
> * Title: Digital Tuesday 2 Date: Tuesday August 16, 2011 Time: 7:00
> pm - 8:30 pm Repeats: This event repeats every month on the third
> Tuesday. Next reminder: The next reminder for this event will be sent in
> 3 days, 1 minute. Location: 299 Connor Ln, Lucas, TX Notes: 299 Connor
> Ln, Lucas, TX
> Follow the driveway to the back gate and to the pool house.
> Talk-in 147.18+ PL 107.2 Get reminders on your mobile, Yahoo! Messenger,
> and email.
> Edit reminder options <http://groups.yahoo.com/group/DAWG-HSMM/cal?v=75>
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Policy<http://privacy.yahoo.com/privacy/us>
>
>

2302. Digital Tuesday 2, 8/16/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-08-15 23:58:42 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2300 Message: 2302

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday August 16, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2303. Re: [DAWG-HSMM] Digital Tuesday 2, 8/16/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-08-16 19:14:34 UTC
From: Rusty Haddock
Topic: 2300 Message: 2303

Sorry for the late agenda. Kip's been having A/C problems at home and I've been, well... having problems. Anyhoot, plans for tonight are to re-re-visit the tunnel to Austin. We'll also hook up Kip's Linux box/server and show again how to make it accessible from the mesh.

If anyone has IP phones or cameras, by all means, bring 'em with U!!!

It looks to be a teach-and-play night!

Come and join us! Same Bat Time, Same Bat Channel!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2304. Re: [DAWG-HSMM] Digital Tuesday 2, 8/16/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-08-17 06:56:14 UTC
From: Rusty Haddock
Topic: 2300 Message: 2304

Darrell Null wrote:
>Any way this could be broadcast over the internet or via a tunnel?

I'm sure there is but our tunnel connection hasn't stayed up long enough for that to be a viable option. Also, I don't have the equipment for decent audio or video recording nor do I know a way to broadcast this on the 'net, even with crappy A/V.

Honestly, even if I had the equipment and the means to stream our meetings over the 'net, I'm not really sure that I'd want to put that kinda effort into making a worth while production. Kip and I are already trying to run a meeting of sorts as well as try to keep this bunch of goofballs* corraled. :-) It doesn't always work but we do have a good time!

I'm sorry if you can't attend but, for the time being Darrell, you'll either have to show up at the meetings or... don't.

-Rusty-

* - And I mean that in a good, down home, Christian way!
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2305. No takers on 65-foot node in Garland...

Yahoo group: DAWG-HSMM
Date: 2011-08-19 02:08:04 UTC
From: wa3ite
Topic: 2305 Message: 2305

...sort of surprised that I couldn't get anyone to help with this. Now that school has started, I probably won't have much time for this. Maybe I'll ask again around Christmas break.

2306. HSMM-MESH Server balloon launch Saturday

Yahoo group: DAWG-HSMM
Date: 2011-08-19 02:31:49 UTC
From: Steve Niles
Topic: 2306 Message: 2306

http://www.w5acm.net/b27.html

Scheduled launch 10AM Saturday from Wharton, TX Airport.

Steve N5EN

2307. Re: [DAWG-HSMM] HSMM-MESH Server balloon launch Saturday

Yahoo group: DAWG-HSMM
Date: 2011-08-19 02:33:55 UTC
From: James Hall
Topic: 2306 Message: 2307

Is this the first near space balloon with wifi?

On Thu, Aug 18, 2011 at 10:31 PM, Steve Niles <N5EN@...> wrote:

> **
>
>
> http://www.w5acm.net/b27.html
>
> Scheduled launch 10AM Saturday from Wharton, TX Airport.
>
> Steve N5EN
>
>
>

2308. Re: [DAWG-HSMM] HSMM-MESH Server balloon launch Saturday

Yahoo group: DAWG-HSMM
Date: 2011-08-19 02:56:21 UTC
From: Steve Niles
Topic: 2306 Message: 2308

They had a MESH router on last years balloon. I believe they were able to maintain a good connection beyond 60,000 ft.

I will be pointing my node in that direction... We'll see if I can hear it from Northwest Houston.

Steve N5EN

-----Original message-----
From: James Hall <hall.jamesr@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Fri, Aug 19, 2011 02:33:55 GMT+00:00
Subject: Re: [DAWG-HSMM] HSMM-MESH Server balloon launch Saturday

Is this the first near space balloon with wifi?

On Thu, Aug 18, 2011 at 10:31 PM, Steve Niles <N5EN@...> wrote:

> **
>
>
> http://www.w5acm.net/b27.html
>
> Scheduled launch 10AM Saturday from Wharton, TX Airport.
>
> Steve N5EN
>
>
>

2309. Re: [DAWG-HSMM] HSMM-MESH Server balloon launch Saturday

Yahoo group: DAWG-HSMM
Date: 2011-08-19 03:16:10 UTC
From: James Hall
Topic: 2306 Message: 2309

Just wondering if a couple people using things like these:
http://people.wallawalla.edu/~Rob.Frohne/Airport/Primestar/Primestar.html could
do a networked qso over a few states with a wifi ap on a near-space balloon.
Maybe through some sort of irc server running on the AP. Or better,
sip-phone to sip-phone. :)

I don't know how these things usually go. The page you linked said streaming
video and data. Is there some sort of one-way protocol in play?

On Thu, Aug 18, 2011 at 10:56 PM, Steve Niles <N5EN@...> wrote:

> **
>
>
> They had a MESH router on last years balloon. I believe they were able to
> maintain a good connection beyond 60,000 ft.
>
> I will be pointing my node in that direction... We'll see if I can hear it
> from Northwest Houston.
>
> Steve N5EN
>
>
> -----Original message-----
>
> *From: *James Hall <hall.jamesr@...>*
> To: *DAWG-HSMM@yahoogroups.com*
> Sent: *Fri, Aug 19, 2011 02:33:55 GMT+00:00*
> Subject: *Re: [DAWG-HSMM] HSMM-MESH Server balloon launch Saturday
>
> Is this the first near space balloon with wifi?
>
> On Thu, Aug 18, 2011 at 10:31 PM, Steve Niles <N5EN@...> wrote:
>
>> **
>>
>>
>> http://www.w5acm.net/b27.html
>>
>> Scheduled launch 10AM Saturday from Wharton, TX Airport.
>>
>> Steve N5EN
>>
>>
>
>

2310. Re: [DAWG-HSMM] HSMM-MESH Server balloon launch Saturday

Yahoo group: DAWG-HSMM
Date: 2011-08-19 03:21:44 UTC
From: Steve Niles
Topic: 2306 Message: 2310

Andy?

--- hall.jamesr@... wrote:

From: James Hall
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] HSMM-MESH Server balloon launch Saturday
Date: Thu, 18 Aug 2011 23:16:10 -0400

Just wondering if a couple people using things like these: http://people.wallawalla.edu/~Rob.Frohne/Airport/Primestar/Primestar.html could do a networked qso over a few states with a wifi ap on a near-space balloon. Maybe through some sort of irc server running on the AP. Or better, sip-phone to sip-phone. :)

I don't know how these things usually go. The page you linked said streaming video and data. Is there some sort of one-way protocol in play?

On Thu, Aug 18, 2011 at 10:56 PM, Steve Niles <N5EN@...> wrote:

They had a MESH router on last years balloon. I believe they were able to maintain a good connection beyond 60,000 ft.

I will be pointing my node in that direction... We'll see if I can hear it from Northwest Houston.

Steve N5EN

-----Original message-----
From: James Hall <hall.jamesr@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Fri, Aug 19, 2011 02:33:55 GMT+00:00
Subject: Re: [DAWG-HSMM] HSMM-MESH Server balloon launch Saturday

Is this the first near space balloon with wifi?

On Thu, Aug 18, 2011 at 10:31 PM, Steve Niles <N5EN@...> wrote:

http://www.w5acm.net/b27.html

Scheduled launch 10AM Saturday from Wharton, TX Airport.

Steve N5EN

2311. TAPR/ARR DCC (Digital Communications Conference), Baltimore, MD, 9/16-18

Yahoo group: DAWG-HSMM
Date: 2011-08-22 03:25:30 UTC
From: Mark Thompson
Topic: 2311 Message: 2311

The 30th Annual

ARRL and TAPR Digital Communications Conference
September 16-18, 2011 - Baltimore, MD
http://www.tapr.org/dcc

- -

Final preparations are being made for the 30th Annual ARRL and TAPR Digital Communications Conference. Are you ready? Here's a check list to help you out:

Check List:
- Have you booked your travel?
- Have you booked your hotel room? (see below for special rates and deadline)
- Have you registered for the DCC? Go to http://www.tapr.org/dcc to sign up.

Below is the list of submitted papers. The speakers schedule is being assembled. We have a an exciting list of paper talks, guest speakers, and Introductory Seminars.

- -

Hotel:

Four Points by Sheraton BWI Airport, Baltimore, MD.

A block of rooms at the special DCC room rate of $90.00 single/double. This special rate is good until August 25, 2011 after that you will pay the regular room rate. To book your room, use the reservation link below or call the hotel directly (phone numbers below) and mention the group code DCC (Digital Communications Conference) when making reservations. Be sure to book your rooms early!

Four Points by Sheraton BWI Airport
7032 Elm Road
Baltimore, Maryland 21240
Reservations: 1-800-368-7764 Phone: 410-859-3300

- -

Submitted Papers:

DATV-express: A Lower Cost Approach to DATV
Charles Brain, G4GUO and Ken Konechy, W6HHC

A Shadow Ad-Hoc TEMPn-N Network
Bob Bruninga, WB4APR

CW Mode for the NUE-PSK Digital Modem
Dave Collins, AD7JT and George Heron, N2APB

APRS and the Android Smartphone
Sagar Gupta, KC2VSG

Practical Implementations of Bluetooth in Microcontroller Circuits
John A. Hansen, Ph.D. W2FS

Public Service Event APRS Web Mapping for Wireless Devices
Ted Jacobson, W8KVK and Rob Jacobson, KB9AFT

WRC-12 Agenda Item 1.19: Regulatory Considerations for Software Defined and Cognitive Radio Systems
Brennan Price, N4QX

More experiments with Delay and Disruption Tolerant Networking over AX.25 Networks
John Ronan, EI7IG, Darren Long, GØHHW and Kristian Walsh

A Further Comparison of Different TCP/IP and DTN Protocols over the D-STAR Digital Data Mode
John Ronan, EI7IG and Cathal O'Connor

Codec 2 – Open Source Speech Coding at 2400 bit/s and Below
David Rowe, VK5DGR

PhoneSat: Balloon Testing Results
Mike Safyan

Modulation – Demodulation Software Radio (MDSR) Software for the BiLiF computer interface
Alex Schwarz, VE7DXW

- -

Introductory Talks (Saturday):

Introduction to Digital Voice
Introduction to Digital Modes
Introduction to D-STAR Digital Voice & Data

- -

Demo Room:

Be sure to bring your projects to show in the demo room. Even if you are not speaking. Each year at the DCC a separate (and lockable) room is provided for people to bring and show off their latest projects. Tables and power will be provided. Bring your equipment and display for all to see, learn, and ask questions about. Be sure to bring a small sign and/or flyer naming and describing your project.

- -

Saturday Night Banquet Speaker:

The Village TELCO
David Rowe, VK5DGR

There are now billions of mobile phones all over the world. However in many developing countries, mobile phones are simply too expensive to use. For example, in a country where people earn $1.50/day, a phone call can cost 21 cents/minute. This is a huge tax on communications.

David Rowe, VK5DGR, will describe how a community of people from around the world set out to fix this problem, using a mix of Wi-Fi and open source software. The result is the Village Telco - a DIY telephone company that anyone can set up.

A Village Telco is constructed from a network of "Mesh Potatoes" - small Wi-Fi boxes that are mounted on homes in a village. They form a mesh network, relaying telephone calls for each other. Each Mesh Potato connects to a regular telephone inside village homes. Phone calls on the network are free. A local person in the Village can be trained in a few hours to set up and maintain the network.

To build the Village Telco we borrowed many ideas from Ham Radio, such as sharing hardware designs and community networks.

The talk will include real world stories of how Village Telcos are helping people in several developing countries, and explain why a simple phone call that we take for granted can be so important.

- -

Sunday Seminar:

Stay tuned. We are assembling an exciting seminar. Details will be released this week.

- -

Schedule:

Friday
8:15 AM Conference Registration and Demonstration Room Open
9:00 AM Welcome and Introductions
9:30 AM Technical Presentations
Noon Lunch
1:00 PM Technical Presentations
6:00 PM Break
7:00 PM Social
11:00 PM Demonstration Room Closed

Saturday
7:15 AM Conference Registration and Demonstration Room Open
8:00 AM Welcome
8:15 AM Technical Presentations
Noon Lunch
1:00 PM Technical Presentations
3:15 PM TAPR Membership Meeting
6:00 PM Break
7:00 PM Dinner Banquet

11:00 PM Demonstration Room Closed

Sunday
8:00 AM to Noon Sunday Seminar

- -

We hope to see you there!

73, Steve N7HPR
President TAPR

2312. HSMM-MESH version 0.4.2 Released!

Yahoo group: DAWG-HSMM
Date: 2011-08-22 06:40:59 UTC
From: Rusty Haddock
Topic: 2312 Message: 2312

On Sunday, David Rivenburg, AD5OO, announced the release of version 0.4.2 of the HSMM-MESH firmware. His announcement is below. Please note that there is a patch file available for the upgrade. A reboot will still be required but dropping out of mesh mode is not needed like when a full-blown and complete firmware upgrade is done.

To upgrade from version 0.4.1, click on the Administration tab in the Setup page. In Firmware Upgrade section of that page, click on the [Refresh] button. Naturally, this is presuming that the node you are upgrading has a path to the Internet. In the pulldown menu next to the label "Download Firmware" select the 0.4.2 patch file. Next, click on [Download] and let the fun begin!

And if it's not obvious, PLEASE perform this upgrade on a node that's readily accessible and see how things go BEFORE upgrading a REMOTE NODE!!!

Have phun!

-Rusty-

Today the 0.4.2 release of the HSMM-MESH firmware becomes a reality. Features have been added and bugs have been fixed. Below is a summary of what's changed.

- fixed the bug which prevented port forwarding a range of ports
- added a waterfall display to the signal strength page
- improved hostname resolution on multi-interface devices
- status page now displays the number of olsrd restarts and how long it has been since the last restart
- olsrd watchdog detects more error conditions
- fixed the "text page of death" on the mesh status page when olsr is not running
- swapped the columns on the mesh status page
- make the txtinfo pugin available to the LAN
- fixed a previous neighbor display bug

The 0.4.2 patch replaces some of the running programs so a reboot will happen after the patch is installed.

There are a handful of development tunnel nodes out there. The 0.4.2 patch can be applied to them without breaking the tunnel. Theoretically. If it breaks you will be entitled to a full refund! Allow six to eight weeks for processing. Seriously, it is highly recommended that the tunnel node users do the update (patch only) to take advantage of the improved olsrd handling.

73
ad5oo

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2313. Re: [DAWG-HSMM] HSMM-MESH version 0.4.2 Released!

Yahoo group: DAWG-HSMM
Date: 2011-08-27 00:15:22 UTC
From: Bob Diepenbrock
Topic: 2312 Message: 2313

Some Gotchas to watch out for...

1. This process will reset your root password back to "hsmm"
2. Some of your settings will be lost, I'm guessing all of them except the node name get overwritten.
3. The node will not connect back to the MESH until you connect direct to it and "save" the configuration.

The upgrade process goes well enough, if you understand that you will loose access to the node over the mesh. Personally this caused me a bit of trouble because I was upgrading a node that is not that easy to physically access. All in all, it took about 30 min to upgrade both nodes and figure out what the root password was.
-= Bob =-
On Mon, Aug 22, 2011 at 1:40 AM, Rusty Haddock <rusty@...>wrote:

> **
>
>
> On Sunday, David Rivenburg, AD5OO, announced the release of version 0.4.2
> of the HSMM-MESH firmware. His announcement is below. Please note that
> there is a patch file available for the upgrade. A reboot will still be
> required but dropping out of mesh mode is not needed like when a full-blown
> and complete firmware upgrade is done.
>
> To upgrade from version 0.4.1, click on the Administration tab in the
> Setup page. In Firmware Upgrade section of that page, click on the
> [Refresh] button. Naturally, this is presuming that the node you are
> upgrading has a path to the Internet. In the pulldown menu next to the
> label "Download Firmware" select the 0.4.2 patch file. Next, click on
> [Download] and let the fun begin!
>
> And if it's not obvious, PLEASE perform this upgrade on a node that's
> readily accessible and see how things go BEFORE upgrading a REMOTE NODE!!!
>
> Have phun!
>
> -Rusty-
> ---
>
> Today the 0.4.2 release of the HSMM-MESH firmware becomes a reality.
> Features have been added and bugs have been fixed. Below is a summary
> of what's changed.
>
> - fixed the bug which prevented port forwarding a range of ports
> - added a waterfall display to the signal strength page

```
> - improved hostname resolution on multi-interface devices
> - status page now displays the number of olsrd restarts and how
> long it has been since the last restart
> - olsrd watchdog detects more error conditions
> - fixed the "text page of death" on the mesh status page when olsr
> is not running
> - swapped the columns on the mesh status page
> - make the txtinfo pugin available to the LAN
> - fixed a previous neighbor display bug
>
> The 0.4.2 patch replaces some of the running programs so a reboot will
> happen after the patch is installed.
>
> There are a handful of development tunnel nodes out there. The 0.4.2
> patch can be applied to them without breaking the tunnel. Theoretically.
> If it breaks you will be entitled to a full refund! Allow six to eight
> weeks for processing. Seriously, it is highly recommended that the
> tunnel node users do the update (patch only) to take advantage of the
> improved olsrd handling.
>
> 73
> ad5oo
>
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | ( -< O o Van Alstyne (TX) Metropolitan Area
> |/\__V__/ Math illiteracy affects 7 out of 5 people!
>
>
```

2314. Re: [DAWG-HSMM] HSMM-MESH version 0.4.2 Released!

Yahoo group: DAWG-HSMM
Date: 2011-08-27 04:38:37 UTC
From: Rusty Haddock
Topic: 2312 Message: 2314

Bob Diepenbrock wrote:
>Some Gotchas to watch out for...

None of what you state are gotchas when loading the **PATCH** file, as
I mentioned:

"label "Download Firmware" select the 0.4.2 patch file."

BTW, the patch file in the firmware list that the system downloads
actually includes the word 'patch' in it.

Everything you've described is part of the normal firmware install.
None of these things happen when using the patch file that's on the
firmware list other than a reboot and this brings the WRT54G back to a
mesh node, not an access point. None of the files present in the patch
file could even POSSIBLY change the root password on your WRT54G.

>1. This process will reset your root password back to "hsmm"
>2. Some of your settings will be lost, I'm guessing all of them except the
>node name get overwritten.

When the entire contents of the flash memory are overwritten things like
this do happen, per the installation instructions on the HSMM-MESH.org
website.

>3. The node will not connect back to the MESH until you connect direct to
>it and "save" the configuration.

Actually, that would be MESHNODE and only after a COMPLETE firmware
update does the WRT54g revert to a standard Access Point.

Please be more careful with your warnings next time.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2315. Re: HSMM-MESH version 0.4.2 Released!

Yahoo group: DAWG-HSMM
Date: 2011-08-27 18:55:12 UTC
From: WILLIAM H WALLACE
Topic: 2312 Message: 2315

Rusty

Some of these update/patch problems should not be happening. Everyone should know that people are installing these nodes up on towers and other places that they are not readily accessible. Why does the password change, why won't the until go back into MESH mode Why do I lose settings.

The developmental team has promoted their great software and now people are using it. Update/Update processes need to be thought through and tested before they are released and the impact of updating/upgrading made known to users rather than having the impacts presented a couple of weeks later. A slicker update/upgrade process needs to be adopted and everyone knows they can do something like that. Look what they all have done so far.

William H. Wallace
W0WHW

2316. Re: [DAWG-HSMM] HSMM-MESH version 0.4.2 Released!

Yahoo group: DAWG-HSMM
Date: 2011-08-27 19:22:49 UTC
From: Bob Diepenbrock
Topic: 2312 Message: 2316

Hmmm...

You did say "patch" option. My bad. I wonder if the user interface
mignt warn folks that loading the full image and not the patch will
cause you to have to reconfigure the whole thing.

Makes me wonder though. Why did it remember my node names if I
reloaded the whole flash?

-= Bob =-

On Fri, Aug 26, 2011 at 11:38 PM, Rusty Haddock
<rusty@...> wrote:
> Bob Diepenbrock wrote:
>   >Some Gotchas to watch out for...
>
> None of what you state are gotchas when loading the **PATCH** file, as
> I mentioned:
>
>   "label "Download Firmware" select the 0.4.2 patch file."
>
> BTW, the patch file in the firmware list that the system downloads
> actually includes the word 'patch' in it.
>
> Everything you've described is part of the normal firmware install.
> None of these things happen when using the patch file that's on the
> firmware list other than a reboot and this brings the WRT54G back to a
> mesh node, not an access point. None of the files present in the patch
> file could even POSSIBLY change the root password on your WRT54G.
>
>   >1. This process will reset your root password back to "hsmm"
>   >2. Some of your settings will be lost, I'm guessing all of them except the
>   >node name get overwritten.
>
> When the entire contents of the flash memory are overwritten things like
> this do happen, per the installation instructions on the HSMM-MESH.org
> website.
>
>   >3. The node will not connect back to the MESH until you connect direct to
>   >it and "save" the configuration.
>
> Actually, that would be MESHNODE and only after a COMPLETE firmware
> update does the WRT54g revert to a standard Access Point.
>
> Please be more careful with your warnings next time.
>

```
>        -Rusty-
> --
>   _____                Rusty Haddock  <=>  AE5AE
> |\/   o \   o             Way out yonder in the
> |   (  -<  O o      Van Alstyne (TX) Metropolitan Area
> |/\__V__/       Math illiteracy affects 7 out of 5 people!
>
```

2317. Re: [DAWG-HSMM] HSMM-MESH version 0.4.2 Released!

Yahoo group: DAWG-HSMM
Date: 2011-08-28 04:57:08 UTC
From: Rusty Haddock
Topic: 2312 Message: 2317

Bob Diepenbrock wrote:
>Hmmm...
>
>You did say "patch" option. My bad. I wonder if the user interface
>mignt warn folks that loading the full image and not the patch will
>cause you to have to reconfigure the whole thing.

Unfortunately, anything we could put in would not warn the folks who
are loading the full image on top of the original Linksys firmware.
Sorry, I just don't have much sympathy for folks that can't/won't read
and follow the instructions.

>Makes me wonder though. Why did it remember my node names if I
>reloaded the whole flash?

The WRT54G has a small amount of memory call NVRAM (Non-Volatile RAM).
There are a few items that are stored in the NVRAM of the unit. No,
there is not enough room for all of the configuration parameters nor is
there enough flash to store the code to restore everything back where it
should belong and deal with discrepancies between different combinations
of firmware revisions (not that any of us really wants to write that
stuff much less maintain it through umpteen future updates).

The patches (a new feature) were added to the firmware update process
to avoid this issue (amongst a few others).

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2318. Re: HSMM-MESH version 0.4.2 Released!

Yahoo group: DAWG-HSMM
Date: 2011-08-31 01:30:55 UTC
From: kc4uai
Topic: 2312 Message: 2318

Rusty,

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
> Sorry, I just don't have much sympathy for folks that can't/won't read
> and follow the instructions.

That's great, except there is very little documentation on this thing we call HSMM-MESH and there seems to be very little sympathy from the "folks in the know". I'm sure my experience will not be unique and many will be frustrated by the same things I've had issues with.

We are going to have a lot of trouble getting folks to put up enough nodes to make this thing actually do something more than ad-hoc networks that go nowhere. And until we have enough nodes active on a regular bais the things we can do with it will be extreamly limited. We need to have enough nodes easily reached that have internet access or what's the point? This means we need folks interested in putting up nodes not frustrated trying to figure out how it all works.

I think we should do our best to answer even the stupid questions, over and over again if necessary. If we are getting frustrated by the questions, just chalk it up to the lack of understandable and easily found documentation and say shame on us.. Folks are going to be frustrated with the lack of real nodes you can actually connect to and wonder what's the point.

Let's not run them off because we don't want to answer the same question over and over....

Respectfuly

Bob

Proud operator of 2 (soon to be 3) HSMM_MESH nodes... (One that would provide High Speed internet access to any MESH I could connect to..)

2319. OLSR Signature Key Issue (Is it fixed?)

Yahoo group: DAWG-HSMM
Date: 2011-08-31 01:38:17 UTC
From: kc4uai
Topic: 2319 Message: 2319

All,

I understand that there was an issue with versions of OLSR signatures when you compiled the software for other platforms. Apparently the version of OLSR we are using on HSMM-MESH has this issue. It's not a problem if you don't try to operate cross platform (Say the WRT router and an X86 platform.)

Where can we find the development road map so we can know when we may expect to see an update of OLSR that fixes the problem?

Thanks!

-= Bob =-

2320. Re: [DAWG-HSMM] OLSR Signature Key Issue (Is it fixed?)

Yahoo group: DAWG-HSMM
Date: 2011-08-31 08:50:33 UTC
From: Rusty Haddock
Topic: 2319 Message: 2320

kc4uai wrote:
>All,
>
>I understand that there was an issue with versions of OLSR signatures
>when you compiled the software for other platforms. Apparently the
>version of OLSR we are using on HSMM-MESH has this issue. It's not
>a problem if you don't try to operate cross platform (Say the WRT
>router and an X86 platform.)

Bob, you understand incorrectly. OLSR signatures were added (changed?
I forgot) in version 0.4.0 thusly making earlier versions unable to
"mesh" with 0.4.0 and above. This has not been an issue for operating
across different hardware platforms.

What you're probably referring to is the interoperability of OLSR on the
WRT54G's with OLSR running on hardware with different CPU architectures.
Again, you misunderstand. The problem is, technically, not in the OLSR
daemon, per se, but in the secure plugin used with OLSR.

Since the time that I submitted my patches for the secure plugin (around
the beginning of July) the OLSR team (olsr.org) has not made an official
release of 'olsrd' and it's associated plugins. The HSMM-MESH development
team is also not in the habit of using unreleased versions of other
groups' software. Just to be perfectly clear, the folks at OLSR.org are
not connected with the HSMM-MESH team other than the HSMM-MESH project
uses their software.

BTW, x86 and some/most ARM platforms interoperate just fine with the
WRT54G's. PowerPC, MIPS (as opposed to MIPSel), Atheros chipset-based
machines and the like do not.

>Where can we find the development road map so we can know when we
>may expect to see an update of OLSR that fixes the problem?

Not quite sure where you got the notion that the HSMM-MESH development
team has some sort of definitive road map for our work but you'd do best
to get rid of that notion. I say that because the HSMM-MESH development
team is not in the **business** of producing software and probably not
in the manner in which you're probably accustomed.

As to when a solution to the cross-platform issues will be released:
In my discussions at HAMCOM with our development lead a decision had not
been reached with regards to including a 'fixed' secure plugin for OLSR
with the HSMM-MESH firmware. If a 'fix' is released the concensus is
to provide it as part of the next major HSMM-MESH release, say 0.5.0,
because it is, shall we say, a real game changer. Keep in mind that
version 0.4.2 was just released (not that there necessarily will be

releases for 0.4.3, a 0.4.4, etc either).

Another possibility discussed was that the use of the secure plugin may be discontinued since its value is, in hindsight, somewhat questionable, and could be causing problems with related development and uses of the HSMM-MESH firmware. Discontinued use of the secure plugin would solve the cross-platform issues.

As I stated before, no firm decision has been made to my knowledge.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2321. Re: OLSR Signature Key Issue (Is it fixed?)

Yahoo group: DAWG-HSMM
Date: 2011-08-31 15:49:22 UTC
From: kc4uai
Topic: 2319 Message: 2321

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> kc4uai wrote:
> >I understand that there was an issue with versions of OLSR signatures
> >when you compiled the software for other platforms. Apparently the
> >version of OLSR we are using on HSMM-MESH has this issue. It's not
> >a problem if you don't try to operate cross platform (Say the WRT
> >router and an X86 platform.)
>
> Bob, you understand incorrectly. OLSR signatures were added (changed?
> I forgot) in version 0.4.0 thusly making earlier versions unable to
> "mesh" with 0.4.0 and above. This has not been an issue for operating
> across different hardware platforms.

This is a bit misleading of a statement. There IS a problem with the OLSR packet signatures (as you discuss below) in various hardware mixes when you try to run them all on the same MESH. Yea, if you have a pile of Linksys routers you won't have an issue, but if you want to run on differant hardware platforms you may have trouble.

> What you're probably referring to is the interoperability of OLSR on the
> WRT54G's with OLSR running on hardware with different CPU architectures.
> Again, you misunderstand. The problem is, technically, not in the OLSR
> daemon, per se, but in the secure plugin used with OLSR.

I didn't misunderstand and I never faulted OLSR daemon only the signature stuff that "secures" the packets that get passed around between the routers on the network. Which is released as an optional part of OLSR... Got that too...

> Since the time that I submitted my patches for the secure plugin (around
> the beginning of July) the OLSR team (olsr.org) has not made an official
> release of 'olsrd' and it's associated plugins. The HSMM-MESH development
> team is also not in the habit of using unreleased versions of other
> groups' software. Just to be perfectly clear, the folks at OLSR.org are
> not connected with the HSMM-MESH team other than the HSMM-MESH project
> uses their software.

Got that relationship clearly. But it still doesn't mean we are tied to the OLSR release of record if we thought it was not worth waiting on them to release a new version that fixes this issue. This is the beauty of Open Source Software. Got a problem? You can fix it if you want.

> BTW, x86 and some/most ARM platforms interoperate just fine with the
> WRT54G's. PowerPC, MIPS (as opposed to MIPSel), Atheros chipset-based
> machines and the like do not.

Which is the issue I'm discussing.

>
> Not quite sure where you got the notion that the HSMM-MESH development
> team has some sort of definitive road map for our work but you'd do best
> to get rid of that notion. I say that because the HSMM-MESH development
> team is not in the **business** of producing software and probably not
> in the manner in which you're probably accustomed.

I know of a lot of open source development teams that have road maps of record, some that define dates, some that don't. I'm only asking for direction.. What's the plan? What are we aiming for? Of course if you aim for nothing you are sure to hit it, but I digress.

> As to when a solution to the cross-platform issues will be released:
> In my discussions at HAMCOM with our development lead a decision had not
> been reached with regards to including a 'fixed' secure plugin for OLSR
> with the HSMM-MESH firmware. If a 'fix' is released the concensus is
> to provide it as part of the next major HSMM-MESH release, say 0.5.0,
> because it is, shall we say, a real game changer. Keep in mind that
> version 0.4.2 was just released (not that there necessarily will be
> releases for 0.4.3, a 0.4.4, etc either).

Ahh.. The road map information I'm looking for. Is this you supposing or does this come from the developers?

> Another possibility discussed was that the use of the secure plugin may
> be discontinued since its value is, in hindsight, somewhat questionable,
> and could be causing problems with related development and uses of the
> HSMM-MESH firmware. Discontinued use of the secure plugin would solve
> the cross-platform issues.

It sure would. I would welcome us tossing the secure plugin in favor of link encryption anyway. It would be easier than fixing OLSR or waiting on them to fix it for us and it solves a host of other legal issues I have with what we have now. Personally I would want to have a way to KNOW that a node is owned by another license holder before I agree to mesh with it. Solves a lot of legal issues that come up because we share spectrum with part 15 operators.

-= bob =-

2322. Re: [DAWG-HSMM] Re: OLSR Signature Key Issue (Is it fixed?)

Yahoo group: DAWG-HSMM
Date: 2011-08-31 17:46:26 UTC
From: Rusty Haddock
Topic: 2319 Message: 2322

kc4uai wrote:
>--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>> kc4uai wrote:
>> >I understand that there was an issue with versions of OLSR signatures
>> >when you compiled the software for other platforms. Apparently the
>> >version of OLSR we are using on HSMM-MESH has this issue. It's not
>> >a problem if you don't try to operate cross platform (Say the WRT
>> >router and an X86 platform.)
>>
>> Bob, you understand incorrectly. OLSR signatures were added (changed?
>> I forgot) in version 0.4.0 thusly making earlier versions unable to
>> "mesh" with 0.4.0 and above. This has not been an issue for operating
>> across different hardware platforms.
>
>This is a bit misleading of a statement. There IS a problem with the
>OLSR packet signatures (as you discuss below) in various hardware mixes

This is not misleading at all. Just good ol' Bob trying to make it
sound that way to prove his point. Please direct me to the location
of the packet signatures that YOU are talking about. The problem in
the secure plugin involved mixed up bytes in the timestamps and other
data structures passed in the data from the secure plugin. From a
developers' view point these are not considered to be signatures.

>> What you're probably referring to is the interoperability of OLSR on the
>> WRT54G's with OLSR running on hardware with different CPU architectures.
>> Again, you misunderstand. The problem is, technically, not in the OLSR
>> daemon, per se, but in the secure plugin used with OLSR.
>
>I didn't misunderstand and I never faulted OLSR daemon only the
>signature stuff that "secures" the packets that get passed around
>between the routers on the network. Which is released as an optional
>part of OLSR... Got that too...

That's funny, you never mentioned plugins before this message. So how
could I POSSIBLY deduce that you didn't misunderstand and had never
faulted the OLSR daemon? Just good ol' Bob trying to cover up his
misunderstandings of the situation at hand so that he doesn't look so bad.

>> Since the time that I submitted my patches for the secure plugin (around
>> the beginning of July) the OLSR team (olsr.org) has not made an official
>> release of 'olsrd' and it's associated plugins. The HSMM-MESH development
>> team is also not in the habit of using unreleased versions of other
>> groups' software. Just to be perfectly clear, the folks at OLSR.org are
>> not connected with the HSMM-MESH team other than the HSMM-MESH project
>> uses their software.

>
>Got that relationship clearly.

Good. Just wanted to be sure you knew that since you have a habit of misunderstanding so much about the HSMM-MESH project.

>But it still doesn't mean we are tied to the OLSR release of record

Maybe we aren't but that's the way the HSMM-MESH development team operates. We call it good software practices. Secondly, we prefer to stick with released versions of other folks' software since the latest and greatest (but not released) has not been thoroughly tested. Maybe you'd go with it, but for the time being, the HSMM-MESH team is not.

If you want to run the show differently, by all means, it's all open source and you're welcome to start your own mesh project. Maybe after countless months you can have the documention you claim the HSMM-MESH doesn't have.

>> BTW, x86 and some/most ARM platforms interoperate just fine with the
>> WRT54G's. PowerPC, MIPS (as opposed to MIPSel), Atheros chipset-based
>> machines and the like do not.
>
>Which is the issue I'm discussing.

Duh, ya think? Still, you did suggest that x86 systems did not mesh with the WRT54G's per your statement:

"It's not a problem if you don't try to operate cross platform
(Say the WRT router and an X86 platform.)"

They do mesh, and quite well I might add.

>I know of a lot of open source development teams that have road maps

Good for them!!!

>of record, some that define dates, some that don't. I'm only asking
>for direction.. What's the plan? What are we aiming for? Of course

And if we had something we wanted to share it would be up on the HSMM-MESH.org website. You might also try checking out the project philosophy file on the HSMM-MESH.org website. Still, getting you to read something simple, like instructions, seems to be a real problem for you, Bob.

>> As to when a solution to the cross-platform issues will be released:
>> In my discussions at HAMCOM with our development lead a decision had not
>> been reached with regards to including a 'fixed' secure plugin for OLSR
>> with the HSMM-MESH firmware. If a 'fix' is released the concensus is
>> to provide it as part of the next major HSMM-MESH release, say 0.5.0,
>> because it is, shall we say, a real game changer. Keep in mind that
>> version 0.4.2 was just released (not that there necessarily will be

>> releases for 0.4.3, a 0.4.4, etc either).
>
>Ahh.. The road map information I'm looking for. Is this you supposing
>or does this come from the developers?

Earth to Bob, I AM one of the developers. As I said, I discussed this
issue with the lead developer who was attending HAMCOM, or did you
conveniently not read that statement?

>It sure would. I would welcome us tossing the secure plugin in favor
>of link encryption anyway. It would be easier than fixing OLSR or
>waiting on them to fix it for us and it solves a host of other legal

Again, you truly failed to read my message or you just have diarrhea of
the mouth/fingers/whatever and blather on anyhow. As I stated before the
secure plugin HAS BEEN FIXED AND SUBMITTED TO THE OLSR DEVELOPMENT TEAM.
If you were to pull down the latest and greatest sources (although not
fully tested and formally released) from olsr.org I can point you to
the exact fixes THAT I MADE. Heck, just search for my callsign in the
secure plugin sources.

That being said.... Bob, I have had enough. You are getting tiresome.
I've already had comments emailed to me from some of the folks down in
Austin who are reading this list as well. The concensus seems to be that
you have wore out your welcome on this list. If it were up to me (and
lucky for you it's not) I'd have kicked your ass off this list for being
argumentative as well as generating misleading and false information.
It is my opinion that your emails generally provide no useful information
and have supplied the group with a bunch of worthless whining. Like I
said, I don't have the authority to kick you off this list but, because of
your false sense of knowledge on the subject of this list, I wish I did.

I truly believe that if you give a man a fish, you fed him for a day.
If you teach a man to fish, you feed him for a life time. It's clear from
your unsubstantiated whining and complaining and incitfulness that you
do not want to fish but have others fish for you. Your ideas about how
this project should be managed or directed have pretty much fallen upon
deaf ears within the development team. I, for one, will continue to try
and teach others about HSMM-MESH but I will no longer give you any fish.

Whether you like my answers or not, I no longer give a damn. As I said,
you have grown tiresome and not just to me. I truly wish you would
leave the group. If you don't like that opinion, bummer!

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2323. Re: OLSR Signature Key Issue (Is it fixed?)

Yahoo group: DAWG-HSMM
Date: 2011-09-02 13:36:18 UTC
From: kc4uai
Topic: 2319 Message: 2323

Rusty,

I'm sorry that I have made you upset. I was feeling rather frustrated with you when I posted the last message and should not have hit "send" until I calmed down. After re-reading the exchange I understand why you got angry with me. I'm sorry, I was way out of line.

-= Bob =-

2324. Does anybody have a JTAG cable I can borrow?

Yahoo group: DAWG-HSMM
Date: 2011-09-02 21:26:57 UTC
From: kc4uai
Topic: 2324 Message: 2324

All,

I just obtained a router for nothing. The catch is that it was bricked by the previous owner. The power LED flashes forever with no other LED activity. I understand that this is a symptom of a bad boot loader. I've done the 30/30/30 proceedure and tried the static MAC entry gambit but the router remains unresponsive to ping. This leaves only the JTAG recover option as far as I can tell.

I have two questions:
1. Is there some other possible thing I can try before breaking out the tools?
2. Does anybody have a JTAG Cable I could borrow?

Thanks!

-= bob =-

2325. Digital Tuesday 1, 9/6/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-09-02 23:58:22 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2325 Message: 2325

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday September 6, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
(The next reminder for this event will be sent in 3 days, 1 minute.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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http://docs.yahoo.com/info/terms/

2326. ARRL/TAPR DCC Forum Schedule, Banquet Speaker & Sunday Seminar Announced

Yahoo group: DAWG-HSMM
Date: 2011-09-03 09:57:50 UTC
From: Mark Thompson
Topic: 2326 Message: 2326
Attachments: 1 described; binary payloads are missing from this source WARC

The 30th Annual
ARRL and TAPR Digital Communications Conference
September 16-18, 2011 - Baltimore, MD
http://www.tapr.org/dcc

Update September 2, 2011
The speakers schedule is posted to the DCC web site at
www.tapr.org/pdf/DCC_2011_Schedule.pdf
- A full schedule of paper presentations and invited speakers.

Sunday Seminar Topic announced - see below
There is Something for Everyone!!

Introductory Talks (Saturday)

Introduction to Digital Data Modes - George Heron, N2APB
Introduction to Digital Voice - Mel Whitten, K0PFX
Introduction to D-STAR Digital Voice & Data - Mark Braunstein, WA4KFZ
Introduction to APRS - Bob Bruninga, WB4APR

Main Session Talks (Friday and Saturday) See speakers schedule posted
at www.tapr.org/pdf/DCC_2011_Schedule.pdf

Sunday Seminar

Universal Ham Radio Connectivity by Callsign Workshop - Bob Bruninga, WB4APR

With Today's proliferation of wireless electronic devices, we need a transparent means of providing end-to-end ham radio connectivity for both text and voice to any ham anywhere using any device and only his callsign for addressing. Our callsigns are unique in the world. We should be able to use them for placing a call or text using any system in real time. The goal of this workshop is to look at the handful of VOIP and more than 26 different text messaging systems in Ham radio and see where we can provide transparent connectivity. We invite experts on all systems to participate and share ideas towards this goal.

Demonstration Room

Be sure to bring your projects to show in the demo room. Even if you are not speaking. Each year at the DCC a separate (and lockable) room is provided for people to bring and show off their latest projects. Tables and power will be provided. Bring your equipment and display for all to see, learn, and ask questions about. Be sure to bring a small sign and/or flyer naming and describing your project.

Saturday Night Banquet Speaker

The Village TELCO - David Rowe, VK5DGR

There are now billions of mobile phones all
over the world. However in many developing countries, mobile phones are simply too expensive to use. For example, in a country where people earn $1.50/day, a phone call can cost 21 cents/minute. This is a huge tax on communications.

David Rowe, VK5DGR, will describe how a community
of people from around the world set out to fix this problem, using a mix of Wi-Fi and open source
software. The result is the Village Telco - a DIY telephone company that anyone can set up.

A Village Telco is constructed from a network of "Mesh Potatoes" - small Wi-Fi boxes that are mounted on homes in a village. They form a mesh network, relaying telephone calls for each other. Each Mesh Potato connects to a regular telephone inside village homes. Phone calls on the network are free. A local person in the Village can be trained in a few hours to set up and maintain the network.

To build the Village Telco we borrowed many ideas from Ham Radio, such as sharing hardware designs and community networks.

The talk will include real world stories of how Village Telcos are helping people in several developing countries, and explain why a simple phone call that we take for granted can be so important.

Registration

Are you ready? Here's a check list:

- Have you booked your travel?
- Have you booked your hotel room? (see below)
- Have you registered for the DCC? Go to https://www.tapr.org/dccregistration.php to sign up.

Hotel

Four Points by Sheraton BWI Airport, Baltimore, MD.

Use the reservation link below or call the hotel directly (phone numbers below) and mention the group
code DCC (Digital Communications Conference) when making reservations.

Four Points by Sheraton BWI Airport
7032 Elm Road
Baltimore, Maryland 21240
Reservations: 1-800-368-7764
Phone: 410-859-3300
http://www.starwoodhotels.com/sheraton/property/overview/index.html?propertyID=856

Submitted Papers

DATV-express: A Lower Cost Approach to DATV
Charles Brain, G4GUO and Ken Konechy, W6HHC

A Shadow Ad-Hoc TEMPn-N Network
Bob Bruninga, WB4APR

CW Mode for the NUE-PSK Digital Modem
Dave Collins, AD7JT and George Heron, N2APB

APRS and the Android Smartphone
Sagar Gupta, KC2VSG

Practical Implementations of Bluetooth in Microcontroller Circuits
John A. Hansen, Ph.D.
W2FS

Public Service Event APRS Web Mapping for Wireless Devices
Ted Jacobson, W8KVK and Rob
Jacobson, KB9AFT

WRC-12 Agenda Item 1.19: Regulatory Considerations for Software Defined and Cognitive Radio Systems
Brennan Price, N4QX

More experiments with Delay and Disruption Tolerant Networking over AX.25 Networks
John Ronan, EI7IG, Darren Long, GØHHW and Kristian Walsh

A Further Comparison of
Different TCP/IP and DTN Protocols over the D-STAR Digital Data Mode
John Ronan, EI7IG and Cathal O'Connor

Codec 2 – Open Source Speech Coding at 2400 bit/s and Below
David Rowe, VK5DGR

PhoneSat: Balloon Testing Results
Mike Safyan

Modulation – Demodulation Software Radio (MDSR) Software for the BiLiF computer interface
Alex Schwarz, VE7DXW

Schedule

Friday
8:15 AM Conference Registration and Demonstration Room Open
9:00 AM Welcome and Introductions
9:30 AM Technical Presentations
Noon Lunch
1:00 PM Technical Presentations
6:00 PM Break
7:00 PM Social
11:00 PM Demonstration Room Closed

Saturday
7:15 AM
Conference Registration and Demonstration Room Open
8:00 AM Welcome

8:15 AM Technical Presentations
Noon Lunch
1:00 PM Technical Presentations
3:15 PM TAPR
Membership Meeting
6:00 PM Break
7:00 PM Dinner Banquet
11:00 PM Demonstration Room Closed

Sunday
8:00 AM to Noon Sunday Seminar

We hope to see you there!

73, Steve N7HPR
President TAPR

2327. Re: Does anybody have a JTAG cable I can borrow?

Yahoo group: DAWG-HSMM
Date: 2011-09-03 17:28:08 UTC
From: ag5rs
Topic: 2324 Message: 2327

Bob,
I am not sure if you found a JTAG anywhere, but I can point you to an inexpensive one ($21) -- http://www.sparkfun.com/products/275. They call it an ARM JTAG, but if I remember right JTAG is a universal specification and it doesn't matter if it is ARM or TI or what.

Hope this helps,
Ron, AG5RS

--- In DAWG-HSMM@yahoogroups.com, "kc4uai" <kc4uai@...> wrote:
>
> All,
>
> I just obtained a router for nothing. The catch is that it was bricked by the previous owner. The power LED flashes forever with no other LED activity. I understand that this is a symptom of a bad boot loader. I've done the 30/30/30 proceedure and tried the static MAC entry gambit but the router remains unresponsive to ping. This leaves only the JTAG recover option as far as I can tell.
>
> I have two questions:
> 1. Is there some other possible thing I can try before breaking out the tools?
> 2. Does anybody have a JTAG Cable I could borrow?
>
> Thanks!
>
> -= bob =-
>

2328. Re: HSMM-MESH Server balloon launch Saturday

Yahoo group: DAWG-HSMM
Date: 2011-09-03 17:38:56 UTC
From: ag5rs
Topic: 2306 Message: 2328

No, last year was the first. I have a photo of our server connected via HSMM-MESH at about 10miles up. We believe that is the first WiFi and from near space, no matter what connection.

As for the first server from near space, maybe. I know NASA has some servers on ISS, but I don't think any non-governmental agency has put a server up yet.

Sadly this year it was too hot in my workshop to improve the groundstation antennas and I had some family issues as well. That prevented me from being able to get a link up. The other guys who tried did not have enough gain to stay linked for more than a few miles. The pathloss is a killer! To get any reasonable gain margin you have to overcome 125 dBm of pathloss and still end up with about -70 dBm at the router input.

When it cools of in a month or so I will be back at feed optimization on my 1.5m dish as well as building in the needed hardware to make it fully auto-track.

One thing we proved last year and this year -- you MUST have a parallel FM video link (we use 1.265 GHz). That link is invaluable in ensuring proper aiming with the narrow beam widths your high gain WiFi dishes need.

Thanks for the interest! We love the support and participation of EVERYONE. If you ever want to get together a group to talk deep tech, let me know. I will drive to Dallas, Austin, or pretty much anywhere in Texas if you give me some notice so I can fit it into my work schedule.

73 de AG5RS, Ron

--- In DAWG-HSMM@yahoogroups.com, James Hall <hall.jamesr@...> wrote:
>
> Is this the first near space balloon with wifi?
>
> On Thu, Aug 18, 2011 at 10:31 PM, Steve Niles <N5EN@...> wrote:
>
> > **
> >
> >
> > http://www.w5acm.net/b27.html
> >
> > Scheduled launch 10AM Saturday from Wharton, TX Airport.
> >
> > Steve N5EN
> >
> >
> >
>

2329. Re: HSMM-MESH Server balloon launch Saturday

Yahoo group: DAWG-HSMM
Date: 2011-09-03 18:16:51 UTC
From: ag5rs
Topic: 2306 Message: 2329

We were using standard WiFi protocols. The video was streamed UDP and the server used TCP.

The type of dish does not matter as long as you can point it accurately and your total system has enough gain.

Unfortunately, the laws physics constantly gets in the way of fun :-)

Here is a typical link budget:
Transmit Power + 23 dBm
Amplifier (1 watt) + 7 dB
Connector/cable losses - 1 dBm
Balloon Antenna gain + 12 dBm (max if overhead)
Balloon Antenna angle loss - 0 to -10 dBm (use -5)
Path Loss - 132 dBm at 25 miles

Total to Ground - 96 dBm

With our Linksys WRT-54GL routers we needed a minimum of -70 dBm to make a good connection and because of balloon spin, wobble, and other stuff we needed about -60 dBm for a reliable link to the server.

That means you have to get the -96 dBm up to - 60-ish to be reliable. That requires 36 dB of Antenna gain
on the ground. Also if you are not circular polarized you need another 3 dB to overcome that loss.

The Primestar setup would not likely have that. I would guess it would be in the 18-20 range. If you build one I will help you find a way to get it measured.

What that means is you probably could hit the mesh and get a link, but it would not have enough oomph to do much else.

If you want to play with these numbers -- please do. There are lots of online calculators. Just search for "path loss calculator". The only little gotcha' is don't forget that the altitude adds to the distance.

Good Luck!

Ron, AG5RS

2330. Re: [DAWG-HSMM] Re: Does anybody have a JTAG cable I can borrow?

Yahoo group: DAWG-HSMM
Date: 2011-09-03 19:51:36 UTC
From: Bob Diepenbrock
Topic: 2324 Message: 2330

Thanks Ron,

I believe you are correct that JTAG is universal, but I would not be surprised if there where byte and/or bit order differences between CPU types. Thanks for pointing me towards Sparkfun, they have a number of options and I hadn't thought of looking there.

In this case, I was looking for the parallel port based (JTAG on a shoestring) cable that is discussed as part of the "HaryDaryMaid" (and related) debricking utilities. The cables are available pre-built on E-bay for about $10, and possibly built for a lot less if one had a well stocked junk box.

-= bob =-

On Sat, Sep 3, 2011 at 12:28 PM, ag5rs <rls@...> wrote:

> **
>
>
> Bob,
> I am not sure if you found a JTAG anywhere, but I can point you to an
> inexpensive one ($21) -- http://www.sparkfun.com/products/275. They call
> it an ARM JTAG, but if I remember right JTAG is a universal specification
> and it doesn't matter if it is ARM or TI or what.
>
> Hope this helps,
> Ron, AG5RS
>
> Reply to sender<rls@...?subject=Re%3A%20Does%20anybody%20have%20a%20JTAG%20cable%20I%20can%20borrow%3F>| Reply
> to group<DAWG-HSMM@yahoogroups.com?subject=Re%3A%20Does%20anybody%20have%20a%20JTAG%20cable%20I%20can%20borrow%3F>| Reply
> via web post<http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJxYWwyOWtqBF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMyMzI3BHNlYwNmdHIEc2xrA3JwbHkEc3RpbWUDMTMxNTA3MDg5MA--?act=reply&messageNum=2327>| Start
> a New Topic<http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJmZW5nMmVvBF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNudHBjBHN0aW1lAzEzMTUwNzA4OTA->
> Messages in this topic<http://groups.yahoo.com/group/DAWG-HSMM/message/2324;_ylc=X3oDMTM1dm5zYzByBF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMyMzI3BHNlYwNmdHIEc2xrA3Z0cGMEc3RpbWUDMTMxNTA3MDg5MAR0cGNJZAMyMzI0>(
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> freecreditscore.com.<http://global.ard.yahoo.com/SIG=15ou9kh8d/M=791726.14847541.1459040
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7ab36f4d8/B=UiswAGKJiUQ-/J=1315070890811485/K=FMOgNs1WwbsxrVbxRV7eVg/A=6449876/R=0/SIG=130
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> Stay on top of your group activity without leaving the page you're on - Get
> the Yahoo! Toolbar now.<http://global.ard.yahoo.com/SIG=15ol7qqre/M=493064.14543979.1456
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> Switch to: Text-Only<DAWG-HSMM-traditional@yahoogroups.com?subject=Change+Delivery+Forma
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> Daily Digest<DAWG-HSMM-digest@yahoogroups.com?subject=Email+Delivery:+Digest>•
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> of Use <http://docs.yahoo.com/info/terms/>
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2331. Re: Does anybody have a JTAG cable I can borrow?

Yahoo group: DAWG-HSMM
Date: 2011-09-03 20:33:48 UTC
From: ag5rs
Topic: 2324 Message: 2331

Good stuff, I will check that out.

BTW, I think your programming software would take care of the bit order stuff.

Ron, AG5RS

--- In DAWG-HSMM@yahoogroups.com, Bob Diepenbrock <kc4uai@...> wrote:
>
> Thanks Ron,
>
> I believe you are correct that JTAG is universal, but I would not be
> surprised if there where byte and/or bit order differences between CPU
> types. Thanks for pointing me towards Sparkfun, they have a number of
> options and I hadn't thought of looking there.
>
> In this case, I was looking for the parallel port based (JTAG on a
> shoestring) cable that is discussed as part of the "HaryDaryMaid" (and
> related) debricking utilities. The cables are available pre-built on E-bay
> for about $10, and possibly built for a lot less if one had a well stocked
> junk box.
>
> -= bob =-
>
> On Sat, Sep 3, 2011 at 12:28 PM, ag5rs <rls@...> wrote:
>
> > **
> >
> >
> > Bob,
> > I am not sure if you found a JTAG anywhere, but I can point you to an
> > inexpensive one ($21) -- http://www.sparkfun.com/products/275. They call
> > it an ARM JTAG, but if I remember right JTAG is a universal specification
> > and it doesn't matter if it is ARM or TI or what.
> >
> > Hope this helps,
> > Ron, AG5RS
> >
> > Reply to sender<rls@...?subject=Re%3A%20Does%20anybody%20have%20a%20JTAG%20cable%20I%20can%20borrow%3F>| Reply
> > to group<DAWG-HSMM@yahoogroups.com?subject=Re%3A%20Does%20anybody%20have%20a%20JTAG%20cable%20I%20can%20borrow%3F>| Reply
> > via web post<http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJxYWwyOWtqBF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMyMzI3BHNlYwNmdHIEc2xrA3JwbHkEc3RpbWUDMTMxNTA3MDg5MA--?act=reply&messageNum=2327>| Start
> > a New Topic<http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJmZW5nMmVvBF9TAzk3MzU5Nz

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> > 2)
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> > MARKETPLACE
> > A bad score is 598. A bad idea is not checking yours, at
> > freecreditscore.com.<http://global.ard.yahoo.com/SIG=15ou9kh8d/M=791726.14847541.14590405.10835568/D=groups/S=1705644089:MKP1/Y=YAHOO/EXP=1315078090/L=187ef8e2-d652-11e0-9d1a-5777ab36f4d8/B=UiswAGKJiUQ-/J=1315070890811485/K=FMOgNs1WwbsxrVbxRV7eVg/A=6449876/R=0/SIG=130kfcsn4/*http://www.freecreditscore.com/dni/default.aspx?SiteVersionID=997&sc=671020&bcd=YGROUPS_Bad598>
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> > Stay on top of your group activity without leaving the page you're on - Get
> > the Yahoo! Toolbar now.<http://global.ard.yahoo.com/SIG=15ol7qqre/M=493064.14543979.14562481.13298430/D=groups/S=1705644089:MKP1/Y=YAHOO/EXP=1315078090/L=187ef8e2-d652-11e0-9d1a-5777ab36f4d8/B=UyswAGKJiUQ-/J=1315070890811485/K=FMOgNs1WwbsxrVbxRV7eVg/A=6060255/R=0/SIG=1194m4keh/*http://us.toolbar.yahoo.com/?.cpdl=grpj>
> > [image: Yahoo! Groups]<http://groups.yahoo.com/;_ylc=X3oDMTJlbGVnamxwBF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTMxNTA3MDg5MA-->
> > Switch to:
Text-Only<DAWG-HSMM-traditional@yahoogroups.com?subject=Change+Delivery+Format:+Traditional>,
> > Daily Digest<DAWG-HSMM-digest@yahoogroups.com?subject=Email+Delivery:+Digest>☐
> > Unsubscribe <DAWG-HSMM-unsubscribe@yahoogroups.com?subject=Unsubscribe> ☐ Terms
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2332. Re: [DAWG-HSMM] Re: Does anybody have a JTAG cable I can borrow?

Yahoo group: DAWG-HSMM
Date: 2011-09-04 22:07:38 UTC
From: icra@galaxynet.com
Topic: 2324 Message: 2332

> In this case, I was looking for the parallel port based (JTAG on a
> shoestring) cable that is
> discussed as part of the "HaryDaryMaid" (and related) debricking
> utilities.The cablesare available
> pre-built on E-bay for about $10, and possibly built for a lot less
> if one had a well stocked junk box.
>
A 25-pin parallel connector (take it from an old printer cable....available for free)

4-100K resistors (do not know any one that does not have these in their junk bok)

A short piece of 4 conductor wire (same as above)

the connector for the JTAG header on the board (or just solder to the board)

I would just build one of these un-buffed JTAG cables....not a lot involved and you would have it if you ever needed it in the future

Now....where is my junk box at.....

Mel
N7OKL

2333. Dishes for Sale

Yahoo group: DAWG-HSMM
Date: 2011-09-05 12:57:49 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2062 Message: 2333

Hi Folks!

I have several aluminum dishes for sale.

8 ft Andrew solid dish with steel mounting hardware for a pole mount that just needs U-bolts

6 ft Andrew solid dish with a 2 inch mounting mast

6 ft tubular grid dish with a mounting mast

4 ft solid dish with tripod mount that has azimuth and elevation controls and markings (I have two of these)

It breaks my heart, but my lot is just too small to make good use of these dishes. Reasonable offers are welcome!

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

_____ Information from ESET Smart Security, version of virus signature database 6055 (20110419) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 6066 (20110423) _____

The message was checked by ESET Smart Security.

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_____ Information from ESET Smart Security, version of virus signature database 6068 (20110424) _____

The message was checked by ESET Smart Security.

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_____ Information from ESET Smart Security, version of virus signature database 6073 (20110426) _____

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http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 6114 (20110511) _____

The message was checked by ESET Smart Security.

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_____ Information from ESET Smart Security, version of virus signature database 6122 (20110514) _____

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_____ Information from ESET Smart Security, version of virus signature database 6124 (20110515) _____

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_____ Information from ESET Smart Security, version of virus signature database 6134 (20110519) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 6142 (20110522) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 6144 (20110523) _____

The message was checked by ESET Smart Security.

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_____ Information from ESET Smart Security, version of virus signature database 6150 (20110525) _____

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_____ Information from ESET Smart Security, version of virus signature database 6156 (20110526) _____

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_____ Information from ESET Smart Security, version of virus signature database 6159 (20110527) _____

The message was checked by ESET Smart Security.

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_____ Information from ESET Smart Security, version of virus signature database 6199 (20110611) _____

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_____ Information from ESET Smart Security, version of virus signature database 6200 (20110612) _____

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_____ Information from ESET Smart Security, version of virus signature database 6201 (20110612) _____

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_____ Information from ESET Smart Security, version of virus signature database 6204 (20110613) _____

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_____ Information from ESET Smart Security, version of virus signature database 6218 (20110617) _____

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_____ Information from ESET Smart Security, version of virus signature database 6220 (20110618) _____

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_____ Information from ESET Smart Security, version of virus signature database 6236 (20110624) _____

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_____ Information from ESET Smart Security, version of virus signature database 6285 (20110711) _____

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_____ Information from ESET Smart Security, version of virus signature database 6289 (20110713) _____

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_____ Information from ESET Smart Security, version of virus signature database 6311 (20110720) _____

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_____ Information from ESET Smart Security, version of virus signature database 6317 (20110722) _____

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http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 6392 (20110819) _____

The message was checked by ESET Smart Security.

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_____ Information from ESET Smart Security, version of virus signature database 6423 (20110830) _____

The message was checked by ESET Smart Security.

http://www.eset.com

_____ Information from ESET Smart Security, version of virus signature database 6423 (20110830) _____

The message was checked by ESET Smart Security.

http://www.eset.com

2334. Fwd: TAPR PSR Summer 2011 Journal Now Available

Yahoo group: DAWG-HSMM
Date: 2011-09-05 19:16:54 UTC
From: Mark Thompson
Topic: 2334 Message: 2334

----- Forwarded Message -----
From: Stan Horzepa <stanzepa@...>
To: tapr-announce@...
Sent: Monday, September 5, 2011 9:23 AM
Subject: [tapr-announce] Summer 2011 TAPR PSR is now available

Summer 2011 TAPR PSR is now available at http://www.tapr.org/psr

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* Hermes on
YouTube

* Time for More
Time

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Hamvention

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Directors Meeting Minutes

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Call Signs

* Write
Here!

* Fixing A Little TAPR History

* The
Fine Print

* Our Membership
App

By the way, the TAPR editorial staff is now accepting contributions for the next issue of PSR. October 15, 2011 is the deadline for submissions; send your submissions to wa1lou@...

2335. Digital Tuesday 1, 9/6/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-09-05 23:58:33 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2325 Message: 2335

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday September 6, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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http://docs.yahoo.com/info/terms/

2336. Re: [DAWG-HSMM] Digital Tuesday 1, 9/6/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-09-06 10:11:01 UTC
From: Rusty Haddock
Topic: 2325 Message: 2336

Despite being directly after a holiday Kip and I are still planning to hold a meeting.

Currenty agenda includes:

+ More on the Plano Balloon Fest
+ Installation and use of an IRC (Internet Relay Chat) server on a WRT54G. This is something I've been working on this past week.
+ Discussion of Jim Kinter's (K5KTF) USB additions to a WRT54G. This is slick stuff!

and, if need be, we'll make up some more stuff to fill-in. :-)

Bring your toys and we can talk about what you've been doing the past three weeks with HSMM-MESH.

Come join us! Help with installing the latest version 0.4.2 of the firmware will be available prior to the meeting. It's much simpler this time if you're already running 0.4.0 or 0.4.1.

-Rusty-
--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2337. Re: [DAWG-HSMM] Digital Tuesday 1, 9/6/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-09-07 22:08:40 UTC
From: Rusty Haddock
Topic: 2325 Message: 2337

Rusty Haddock wrote:
>Despite being directly after a holiday Kip and I are still planning to
>hold a meeting.
>
>Currenty agenda includes:
>
> + More on the Plano Balloon Fest
> + Installation and use of an IRC (Internet Relay Chat) server on a
> WRT54G. This is something I've been working on this past week.
> + Discussion of Jim Kinter's (K5KTF) USB additions to a WRT54G.
> This is slick stuff!

The IRC server on a '54G discussion/demo went over with a bang, I'd say. The hardest part was getting everybody running an IRC client on their laptops. I think everyone was running a different client and trying out the features of IRC. We got the problem children (and YOU know who you are <wink wink>) going after the proper application of the club's sturdy 2x4". :-)

Now, we could use a web interface (read - CGI in Perl) for the '54G to enable the server program and do some of the configuration. Anyone wanna give it a try? Right now, hand editting the conf file is the name of the game, but it's not too bad.

Something I plan to work on before our next meeting is to get multiple IRC servers connected. I believe this would allow you to connect to one server yet share channels with and message users of the other server(s) as well.

One other thing we did was to get some folks' nodes upgraded to 0.4.2 of the firmwawre. Having a patch file was a very welcomed feature! (Thanks David!)

If you weren't there you really missed an enjoyable session!
See you in two weeks?? I hope so!

73
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2338. Re: [DAWG-HSMM] Digital Tuesday 1, 9/6/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-09-07 23:45:53 UTC
From: Bill Vodall
Topic: 2325 Message: 2338

> > + Installation and use of an IRC (Internet Relay Chat) server on a
> > WRT54G. This is something I've been working on this past week.

Any particular reason to go with IRC instead of a Jabber (XMPP) server? Seems these days that there's more development in the XMPP world than IRC..

A good Chat/IM setup is a really powerful feature for a project like this...

Bill - WA7NWP

2339. Re: [DAWG-HSMM] Digital Tuesday 1, 9/6/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-09-08 00:07:57 UTC
From: John Galvin
Topic: 2325 Message: 2339

FYI,

Here is a link to an alternative RS-232 to ttl converter board that uses the 232 compatible IC for about the same price. There is also a kit version for do-it-yourselfers. The "level shifter" kit discussed last night does not use a 232 compatible IC. Neither of these kits require a 2 by 4 for assembly.:-)

<http://store.nkcelectronics.com/rs232-to-ttl-converter-board-33v232335.html>
- -
John Galvin - N5TIM
jrgalvin2@...
www.n5tim.info - For Public Service & EmCom Information

*JUNK *- /"Stuff"/ we throw away ... *STUFF* - /"Junk"/ we keep.

On 9/7/2011 17:08, Rusty Haddock wrote:
>
> Rusty Haddock wrote:
> >Despite being directly after a holiday Kip and I are still planning to
> >hold a meeting.
> >
> >Currenty agenda includes:
> >
> > + More on the Plano Balloon Fest
> > + Installation and use of an IRC (Internet Relay Chat) server on a
> > WRT54G. This is something I've been working on this past week.
> > + Discussion of Jim Kinter's (K5KTF) USB additions to a WRT54G.
> > This is slick stuff!
>
> The IRC server on a '54G discussion/demo went over with a bang, I'd say.
> The hardest part was getting everybody running an IRC client on their
> laptops. I think everyone was running a different client and trying out
> the features of IRC. We got the problem children (and YOU know who you
> are <wink wink>) going after the proper application of the club's sturdy
> 2x4". :-)
>
> Now, we could use a web interface (read - CGI in Perl) for the '54G to
> enable the server program and do some of the configuration. Anyone wanna
> give it a try? Right now, hand editting the conf file is the name of
> the game, but it's not too bad.
>
> Something I plan to work on before our next meeting is to get multiple
> IRC servers connected. I believe this would allow you to connect to one
> server yet share channels with and message users of the other server(s)
> as well.
>

```
> One other thing we did was to get some folks' nodes upgraded to 0.4.2
> of the firmwawre. Having a patch file was a very welcomed feature!
> (Thanks David!)
>
> If you weren't there you really missed an enjoyable session!
> See you in two weeks?? I hope so!
>
> 73
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | ( -< O o Van Alstyne (TX) Metropolitan Area
> |/\__V__/ Math illiteracy affects 7 out of 5 people!
>
>
```

2340. Re: [DAWG-HSMM] Digital Tuesday 1, 9/6/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-09-08 00:29:38 UTC
From: Kipton Moravec
Topic: 2325 Message: 2340

On Wed, 2011-09-07 at 16:45 -0700, Bill Vodall wrote:
> > > + Installation and use of an IRC (Internet Relay Chat) server on a
> > > WRT54G. This is something I've been working on this past week.
>
> Any particular reason to go with IRC instead of a Jabber (XMPP)
> server? Seems these days that there's more development in the XMPP
> world than IRC..
>
> A good Chat/IM setup is a really powerful feature for a project like this...
>
> Bill - WA7NWP

>From what I gathered at the meeting there are two reasons.

1. It is small, so it will fit into the router with the HSMM-MESH
Software.

2. It is very easy to configure, so a beginner can do it.

We tried Jabber on a Linux Machine (A PC not a router) and the
configuration was very complicated.

Kip

2341. Re: [DAWG-HSMM] Digital Tuesday 1, 9/6/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-09-08 00:42:43 UTC
From: Bill Vodall
Topic: 2325 Message: 2341

> > Any particular reason to go with IRC instead of a Jabber (XMPP)
>
> >From what I gathered at the meeting there are two reasons.
>
> 1. It is small, so it will fit into the router with the HSMM-MESH
> Software.
>
> 2. It is very easy to configure, so a beginner can do it.
>

Sounds good... It was probably just an ipkg install or update to get the server installed. Thanks for the update.

Bill

2342. Re: [DAWG-HSMM] Digital Tuesday 1, 9/6/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-09-08 04:10:03 UTC
From: Rusty Haddock
Topic: 2325 Message: 2342

Bill Vodall wrote:
>> > Any particular reason to go with IRC instead of a Jabber (XMPP)
>>
>> >From what I gathered at the meeting there are two reasons.
>>
>> 1. It is small, so it will fit into the router with the HSMM-MESH
>> Software.
>>
>> 2. It is very easy to configure, so a beginner can do it.

3. The IRC server didn't require a database program to run. Yet another
PIA to configure as well and more resources.

4. Since it fits on the router there's no extra server PC that
needs to be drug out to an outting.

>Sounds good... It was probably just an ipkg install or update to get
>the server installed. Thanks for the update.

It probably wasn't. :-P

It might be later but I actually did some work to get this going. For now
it comes down to just two files -- the program itself and a config file.
I got it cross-compiled from the latest 'ngircd' sources, version 18,
on my laptop and transferred over to the router. Oh yeah, tweaking the
config file took a little work too.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2343. SiP Phones disconnect

Yahoo group: DAWG-HSMM
Date: 2011-09-14 17:15:19 UTC
From: ae5he
Topic: 2343 Message: 2343

Out here in El Paso we are experimenting with an Asterisk server and SIP phones. I have a complete VOIP phone system that works properly. I am having a problem connecting SIP phones through the mesh.
On the mesh node that hosts the PBX I have opened the following ports from WiFi to the IP address of the PBX:
UDP 5060
UDP 10001-20000

The phone registers with the PBX and I am able to initiate a call. The call will disconnect even if calling another extension.

I have also placed the PBX in the DMZ with the same results.

Are there ports that must be opened on the mesh node that hosts the SIP phone?

Doug Garcia
AE5HE

2344. Re: [DAWG-HSMM] SiP Phones disconnect

Yahoo group: DAWG-HSMM
Date: 2011-09-14 20:12:40 UTC
From: Rusty Haddock
Topic: 2343 Message: 2344

ae5he wrote:
>Out here in El Paso we are experimenting with an Asterisk server and SIP phones. I have a complete VOIP phone system that works properly. I am having a problem connecting SIP phones through the mesh.
>On the mesh node that hosts the PBX I have opened the following ports from WiFi to the IP address of the PBX:
>UDP 5060

What I'm reading is that port 5060 may need to be opened for TCP as well.

There's lots of good into on www.voip-info.org . Maybe there's answer there.

>UDP 10001-20000

I'm seeing 10000 as the lower limit.

>The phone registers with the PBX and I am able to initiate a call. The call
>will disconnect even if calling another extension.
>
>I have also placed the PBX in the DMZ with the same results.

How 'bout the phones themselves? Behind the NAT or DMZ'd?

>Are there ports that must be opened on the mesh node that hosts the SIP phone?

Patrick, ND5C, and I were able to get several phones working on a
small mesh. He was using the 3cx PBX software, not Asterisk though.
Still, that shouldn't be an issue. I don't recall if the phones were
behind the NATs or if we put them in the DMZ.

Patrick?? Can you help us out here?

-Rusty-

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2345. Re: [DAWG-HSMM] SiP Phones disconnect

Yahoo group: DAWG-HSMM
Date: 2011-09-14 20:21:22 UTC
From: Patrick Soileau ND5C
Topic: 2343 Message: 2345

Rusty,

At the time, the HSMM-MESH software did not easily
support opening a range of ports (as it does now)
so you and I put the phones in the DMZ.

Worked like a champ after only about 2 hours!

73,

Pat ND5C

From: Rusty Haddock <rusty@fe2o3.lonestar.org>
>To: DAWG-HSMM@yahoogroups.com
>Sent: Wednesday, September 14, 2011 3:12 PM
>Subject: Re: [DAWG-HSMM] SiP Phones disconnect
>
>
>
>ae5he wrote:
>>Out here in El Paso we are experimenting with an Asterisk server and SIP phones. I have a complete VOIP phone system that works properly. I am having a problem connecting SIP phones through the mesh.
>>On the mesh node that hosts the PBX I have opened the following ports from WiFi to the IP address of the PBX:
>>UDP 5060
>
>What I'm reading is that port 5060 may need to be opened for TCP as well.
>
>There's lots of good into on www.voip-info.org . Maybe there's answer there.
>
>>UDP 10001-20000
>
>I'm seeing 10000 as the lower limit.
>
>>The phone registers with the PBX and I am able to initiate a call. The call
>>will disconnect even if calling another extension.
>>
>>I have also placed the PBX in the DMZ with the same results.
>
>How 'bout the phones themselves? Behind the NAT or DMZ'd?
>
>>Are there ports that must be opened on the mesh node that hosts the SIP phone?
>
>Patrick, ND5C, and I were able to get several phones working on a
>small mesh. He was using the 3cx PBX software, not Asterisk though.

```
>Still, that shouldn't be an issue. I don't recall if the phones were
>behind the NATs or if we put them in the DMZ.
>
>Patrick?? Can you help us out here?
>
>-Rusty-
>
>--
>_____ Rusty Haddock <=> AE5AE
>|\/ o \ o Way out yonder in the
>| ( -< O o Van Alstyne (TX) Metropolitan Area
>|/\__V__/ Math illiteracy affects 7 out of 5 people!
>
>
>
>
```

2346. Re: SiP Phones disconnect

Yahoo group: DAWG-HSMM
Date: 2011-09-14 22:50:55 UTC
From: kk5it94
Topic: 2343 Message: 2346

The 3CX has a built-in tunneling system to route the sip signaling and RTP ports through 1 port (5060)I believe is what I read. I too have been having trouble as well working with Asterisk. I can get the phone to register and dial (no dial tone if I remember correctly), but hear no audio when it should be ringing and it hangs up after about 30 seconds. I am going to have to use wireshark to figure out what ports are being sent back and forth to see if I can get the correct ports opened. I upgraded the firmware on my nodes to 0.4.2, but do not see the option of forwarding port ranges. I even added a single port through the GUI, then SSHed into the box, found the file, and followed the iptables syntax to forward the ports with no luck. The forewarded ports do not show up on the GUI and if I make a change through the GUI, the file is overwritten losing my changes. Can anyone shed some light on where I may have gone wrong with the forwarding of multiple ports? Also, does anyone know if you can use a wildcard on the inbound rules to say allow the RTP ports to any device behind the node instead of a particular IP address?

--- In DAWG-HSMM@yahoogroups.com, "ae5he" <ae5he@...> wrote:
>
> Out here in El Paso we are experimenting with an Asterisk server and SIP phones. I have a complete VOIP phone system that works properly. I am having a problem connecting SIP phones through the mesh.
> On the mesh node that hosts the PBX I have opened the following ports from WiFi to the IP address of the PBX:
> UDP 5060
> UDP 10001-20000
>
> The phone registers with the PBX and I am able to initiate a call. The call will disconnect even if calling another extension.
>
> I have also placed the PBX in the DMZ with the same results.
>
> Are there ports that must be opened on the mesh node that hosts the SIP phone?
>
> Doug Garcia
> AE5HE
>

2347. Re: SiP Phones disconnect

Yahoo group: DAWG-HSMM
Date: 2011-09-15 02:27:51 UTC
From: ae5he
Topic: 2343 Message: 2347

Thanks to all who are interested in helping find a solution to this problem. The problem shown below is pretty much what is happening with my setup. Everything works fine if all phones are connected to the same mesh node as the PBX. When I move a phone to a remote mesh node, I too experience the same issues as described by kk5it with the exception that I do have dial tone on the phone on the remote node. I can call an extension but no audio, after a few seconds the call drops and the phone display shows "disconnected". I have tried to place the PBX in the dmz on one node and the phone in the dmz of the remote node with the same results.

I am using Grandstream GXP-285 phones. The server is running asterisk installed following the instructions found at pbxinaflash.net.

Doug
AE5HE

--- In DAWG-HSMM@yahoogroups.com, "kk5it94" <kk5it@...> wrote:
>
> The 3CX has a built-in tunneling system to route the sip signaling and RTP ports through 1 port (5060)I believe is what I read. I too have been having trouble as well working with Asterisk. I can get the phone to register and dial (no dial tone if I remember correctly), but hear no audio when it should be ringing and it hangs up after about 30 seconds. I am going to have to use wireshark to figure out what ports are being sent back and forth to see if I can get the correct ports opened. I upgraded the firmware on my nodes to 0.4.2, but do not see the option of forwarding port ranges. I even added a single port through the GUI, then SSHed into the box, found the file, and followed the iptables syntax to forward the ports with no luck. The forewarded ports do not show up on the GUI and if I make a change through the GUI, the file is overwritten losing my changes. Can anyone shed some light on where I may have gone wrong with the forwarding of multiple ports? Also, does anyone know if you can use a wildcard on the inbound rules to say allow the RTP ports to any device behind the node instead of a particular IP address?
>
> --- In DAWG-HSMM@yahoogroups.com, "ae5he" <ae5he@> wrote:
> >
> > Out here in El Paso we are experimenting with an Asterisk server and SIP phones. I have a complete VOIP phone system that works properly. I am having a problem connecting SIP phones through the mesh.
> > On the mesh node that hosts the PBX I have opened the following ports from WiFi to the IP address of the PBX:
> > UDP 5060
> > UDP 10001-20000
> >
> > The phone registers with the PBX and I am able to initiate a call. The call will disconnect even if calling another extension.
> >
> > I have also placed the PBX in the DMZ with the same results.
> >

> > Are there ports that must be opened on the mesh node that hosts the SIP phone?
> >
> > Doug Garcia
> > AE5HE
> >
>

2348. Re: [DAWG-HSMM] Re: SiP Phones disconnect

Yahoo group: DAWG-HSMM
Date: 2011-09-15 04:39:53 UTC
From: Rusty Haddock
Topic: 2343 Message: 2348

kk5it94 wrote:
>...
>out what ports are being sent back and forth to see if I can get the
>correct ports opened. I upgraded the firmware on my nodes to 0.4.2,
>but do not see the option of forwarding port ranges. I even added

What kinda of option were you looking for? A big button that says...
Nevermind. Multiple ports are specified as a range (e.g. 8000-9000)
in the port box for the Outside port and just leave the LAN port box
alone/empty. I'm not sure but it appears that you can not shift a range
of ports, say 7000-8000 up to 10000-11000.

>a single port through the GUI, then SSHed into the box, found the
>file, and followed the iptables syntax to forward the ports with
>no luck. The forewarded ports do not show up on the GUI and if I
>make a change through the GUI, the file is overwritten losing my
>changes. Can anyone shed some light on where I may have gone wrong

It's more that just modifying one file to get this done! After modifying
the _setup.ports.nat file in the appropriate config directory you need
to run node-setup program to get those mods fanned out. Afterwards,
just refresh the Port Forwarding webpage. <Poof!>

>with the forwarding of multiple ports? Also, does anyone know if you
>can use a wildcard on the inbound rules to say allow the RTP ports
>to any device behind the node instead of a particular IP address?

No wildcards allowed.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2349. Re: [DAWG-HSMM] Re: SiP Phones disconnect

Yahoo group: DAWG-HSMM
Date: 2011-09-15 20:25:59 UTC
From: Bob Scanferla
Topic: 2343 Message: 2349

I had the same problem when I moved the phones to different IP segmants through multiple routers, but it was a long time ago I need to go back and take a look, I have not played with asterisk for over a year.

VA3RJS

From: ae5he <ae5he@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Wednesday, September 14, 2011 10:27:51 PM
Subject: [DAWG-HSMM] Re: SiP Phones disconnect

Thanks to all who are interested in helping find a solution to this problem. The problem shown below is pretty much what is happening with my setup. Everything works fine if all phones are connected to the same mesh node as the PBX. When I move a phone to a remote mesh node, I too experience the same issues as described by kk5it with the exception that I do have dial tone on the phone on the remote node. I can call an extension but no audio, after a few seconds the call drops and the phone display shows "disconnected". I have tried to place the PBX in the dmz on one node and the phone in the dmz of the remote node with the same results.

I am using Grandstream GXP-285 phones. The server is running asterisk installed following the instructions found at pbxinaflash.net.

Doug
AE5HE

--- In DAWG-HSMM@yahoogroups.com, "kk5it94" <kk5it@...> wrote:
>
> The 3CX has a built-in tunneling system to route the sip signaling and RTP ports through 1 port (5060)I believe is what I read. I too have been having trouble as well working with Asterisk. I can get the phone to register and dial (no dial tone if I remember correctly), but hear no audio when it should be ringing and it hangs up after about 30 seconds. I am going to have to use wireshark to figure out what ports are being sent back and forth to see if I can get the correct ports opened. I upgraded the firmware on my nodes to 0.4.2, but do not see the option of forwarding port ranges. I even added a single port through the GUI, then SSHed into the box, found the file, and followed the iptables syntax to forward the ports with no luck. The forewarded ports do not show up on the GUI and if I make a change through the GUI, the file is overwritten losing my changes. Can anyone shed some light on where I may have gone wrong with the forwarding of multiple
ports? Also, does anyone know if you can use a wildcard on the inbound rules to say allow the RTP ports to any device behind the node instead of a particular IP address?
>
> --- In DAWG-HSMM@yahoogroups.com, "ae5he" <ae5he@> wrote:
> >
> > Out here in El Paso we are experimenting with an Asterisk server and SIP phones. I have

a complete VOIP phone system that works properly. I am having a problem connecting SIP phones through the mesh.
> > On the mesh node that hosts the PBX I have opened the following ports from WiFi to the IP address of the PBX:
> > UDP 5060
> > UDP 10001-20000
> >
> > The phone registers with the PBX and I am able to initiate a call. The call will disconnect even if calling another extension.
> >
> > I have also placed the PBX in the DMZ with the same results.
> >
> > Are there ports that must be opened on the mesh node that hosts the SIP phone?
> >
> > Doug Garcia
> > AE5HE
> >
>

2350. Re: SiP Phones disconnect

Yahoo group: DAWG-HSMM
Date: 2011-09-15 22:24:13 UTC
From: kk5it94
Topic: 2343 Message: 2350

My apologies to the group for the ignorant question. Rusty, I am used to seeing boxes named start port and end port in most vendor interfaces and it has been months since I have read the user documentation section. I just reread the section again and saw what you mentioned below about putting the start and end ports in the same box separated by a hyphen.

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> kk5it94 wrote:
> >...
> >out what ports are being sent back and forth to see if I can get the
> >correct ports opened. I upgraded the firmware on my nodes to 0.4.2,
> >but do not see the option of forwarding port ranges. I even added
>
> What kinda of option were you looking for? A big button that says...
> Nevermind. Multiple ports are specified as a range (e.g. 8000-9000)
> in the port box for the Outside port and just leave the LAN port box
> alone/empty. I'm not sure but it appears that you can not shift a range
> of ports, say 7000-8000 up to 10000-11000.
>
> >a single port through the GUI, then SSHed into the box, found the
> >file, and followed the iptables syntax to forward the ports with
> >no luck. The forewarded ports do not show up on the GUI and if I
> >make a change through the GUI, the file is overwritten losing my
> >changes. Can anyone shed some light on where I may have gone wrong
>
> It's more that just modifying one file to get this done! After modifying
> the _setup.ports.nat file in the appropriate config directory you need
> to run node-setup program to get those mods fanned out. Afterwards,
> just refresh the Port Forwarding webpage. <Poof!>
>
> >with the forwarding of multiple ports? Also, does anyone know if you
> >can use a wildcard on the inbound rules to say allow the RTP ports
> >to any device behind the node instead of a particular IP address?
>
> No wildcards allowed.
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>

2351. Re: [DAWG-HSMM] Re: SiP Phones disconnect

Yahoo group: DAWG-HSMM
Date: 2011-09-15 23:07:13 UTC
From: Rusty Haddock
Topic: 2343 Message: 2351

kk5it94 wrote:

>My apologies to the group for the ignorant question. Rusty,

Ignorance is OK. We's all ignorant about something.
Stupidity is another story!

>I am used to seeing boxes named start port and end port in most
vendor interfaces and it has been months since I have read the user
documentation section. I just reread the section again and saw
what you mentioned below about putting the start and end ports in
the same box separated by a hyphen.

Attaboy! Hope that gits ya going!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2352. Plano Balloon Festival HSMM-MESH

Yahoo group: DAWG-HSMM
Date: 2011-09-15 23:54:53 UTC
From: Kipton Moravec
Topic: 2352 Message: 2352

Just finished setting up the Plano Balloon Festival HSMM-MESH. Got a lot of help from Doug Kilgore Wednesday and Thursday and from John Galvin today.

Nothing went easily.

The original plan was to use the First United Methodist open Wifi Connection. In the past I tried to connect to the node from the roof, then use that access point as the "internet" connection to the MESH. Another year I put a mesh node in a window on the first floor, then a node on the roof. That did not seem to work as well.

The SNR to the church's WIFI node was pretty low (8) I tried putting a 15DB antenna on it and still had poor SNR. Also my computer would say "No connection to the Internet" with that node.

After screwing a few hours, I put a MESH node (N5OOM-AP3) in the same data closet. Still bad SNR. We moved the router outside the closet and into a window that had a CLOS to a node on the roof (N5OOM-AP6) with a 15 db Rootenna. We finally got a SNR of about 26.

The 24 db MESH node on the other side of the roof (KD5OUG-13) pointing towards the Balloon Festival had a SNR below 4 between it and the other unit on the roof (N5OOM-AP6). So I changed the LAN address on N5OOM-AP6)from 172.27.0.1 to 172.27.5.1 and ran an ethernet cable from the LAN port to KD5OUG-13 WAN port and made it an Internet Gateway.

Testing Internet connection from KD5OUG-13 appeared to be a pretty fast connection.

At the balloon festival Field Operations tent I placed another node (AE5IB-AP4) with a 24 db antenna pointing at the church antenna. The units said I had a SNR of 45 for that 2500 foot link. We are going with Horizontal polarity for the long link because of ATT and all of the public with WiFi on their smart phones.

Right next to the operations tent ATT has a Wifi tower about 12 feet tall. It was not plugged in yet. It will be interesting to see what it does to us. It will raise the noise floor. But we have no idea what frequency they will use.

Tomorrow when the McKinney ARC trailer gets on site, we will add a MESH node to it also. Then we should be good for the weekend unless ATT gives us problems with their WiFi system.

Kip

2353. Re: [DAWG-HSMM] Re: SiP Phones disconnect

Yahoo group: DAWG-HSMM
Date: 2011-09-16 02:44:10 UTC
From: Ben Jackson
Topic: 2343 Message: 2353

On 9/15/2011 4:25 PM, Bob Scanferla wrote:

> I had the same problem when I moved the phones to different IP segmants
> through multiple routers, but it was a long time ago I need to go back
> and take a look, I have not played with asterisk for over a year.

Not a HSMM-MESH expert, but I am an Asterisk kinda-expert. SIP does not like situations where it needs to go with a double NAT. So if one of your endpoints is behind a NAT and your other endpoint is behind a different NAT, you're going to have issues like the one described in this thread. You guys may want to look at IAX2 protcol, which has no issues. The downside is that I don't think it is supported in a lot of phone devices.

--
Ben Jackson - N1WBV - New Bedford, MA
bbj <at> innismir.net - http://www.innismir.net/

2354. Re: [DAWG-HSMM] Re: SiP Phones disconnect

Yahoo group: DAWG-HSMM
Date: 2011-09-16 02:57:21 UTC
From: Doug Garcia
Topic: 2343 Message: 2354

Thank you for the tip, I will try it tomorrow.

Doug

From: Ben Jackson <bbj@...>
To: DAWG-HSMM@yahoogroups.com
Cc: Bob Scanferla <va3rjs@...>
Sent: Thursday, September 15, 2011 8:44 PM
Subject: Re: [DAWG-HSMM] Re: SiP Phones disconnect

On 9/15/2011 4:25 PM, Bob Scanferla wrote:

> I had the same problem when I moved the phones to different IP segmants
> through multiple routers, but it was a long time ago I need to go back
> and take a look, I have not played with asterisk for over a year.

Not a HSMM-MESH expert, but I am an Asterisk kinda-expert. SIP does not like situations where it needs to go with a double NAT. So if one of your endpoints is behind a NAT and your other endpoint is behind a different NAT, you're going to have issues like the one described in this thread. You guys may want to look at IAX2 protcol, which has no issues. The downside is that I don't think it is supported in a lot of phone devices.

--
Ben Jackson - N1WBV - New Bedford, MA
bbj <at> innismir.net - http://www.innismir.net/

2355. Digital Tuesday 2, 9/20/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-09-16 23:58:49 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2355 Message: 2355

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday September 20, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
(The next reminder for this event will be sent in 3 days, 1 minute.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2356. Wrapup of Plano Balloon Festival.

Yahoo group: DAWG-HSMM
Date: 2011-09-19 14:10:50 UTC
From: Kipton Moravec
Topic: 2356 Message: 2356
Attachments: 2 described; binary payloads are missing from this source WARC

Plano Balloon Festival is over with.

The link from the church to the field (2500 Feet) went down one time and we had a difficult time getting it back working, and had to reboot both sides before it would start again.

We were down for about 30 minutes while I figured it out.

When the Trailer for the Special Event station arrived we set up a node in a 15 db Rootenna and was up and running pretty quickly.

Friday afternoon I got a call, and they were asking when I was going to give internet to the Balloon Festival Finance trailer! I had done it in 2007-2009 but last year they said they did not need it, and this year I was told they would use ATT as ATT was setting up out there.

It turns out, nobody could get ATT from inside the trailer. It was all metal covered and there was metal mesh over the windows.

I put a node in the window towards the Field Operations node, but there were semi truck trailers, and a chain link fence between and I could not get a signal. I tried another side and I am guessing I was getting a bounce because I got a signal. It was not good but it was better than nothing.

Next year we will do it right and get them an external antenna.

IMAG0706.jpg shows the Field Operations tent with the mesh node in the front right corner.

ATT set up a WiFi tower right next to our tent. So pulling back you can see the tent and the ATT WiFi tower next to us. This is Image IMG070.jpg.

ATT were running on 1, 6 and 11. We had heard they would be there so we went with horizontal polarity figuring they would go with vertical polarity. We did not know that they would set up next to us. Fortunately they had problems and turned off their equipment. But when they were turned on, we did not see a problem. But they were not sending a much data.

Kip

2357. [Fwd: [wl2kemcomm] Join us for "Winlink 2000 Intro" Webinar]

Yahoo group: DAWG-HSMM
Date: 2011-09-19 16:05:04 UTC
From: Kipton Moravec
Topic: 2357 Message: 2357

Here is a webinar on Winlink. You may be interested. It is Wednesday night.

Winlink 2000 Intro

Join us for a Webinar on September 21

Winlink 2000 is a voluntary world-wide digital messaging system providing through Amateur radio, and various government contingency communications services, enabling communications where Internet e-mail and other messaging services are not normally available, or appropriate for use.

Winlink 2000 provides a variety of solutions for the Amateur radio operator including VHF/UHF Packet, HF Pactor and Winmor, which come in different bandwidths, reliabilities, and speeds. Winlink 2000 is used a link to family, friends and weather information for the remote Amateur radio operator. In addition,

Winlink 2000 has proven itself as an effective emergency communications options for various non-commercial and government organizations, as well as Amateur radio operators, when normal emergency communications infrastructure is not otherwise available. Attendees will learn what Winlink is, catch up on the latest developments and get a look at some real world Winlink installations as well as some field examples.

Title:

Winlink 2000 Intro

Date:

Wednesday,
September 21, 2011

Time:

9:00 PM - 10:30 PM
EDT

After registering you will receive a
confirmation email containing
information about joining the
Webinar.

System Requirements
PC-based attendees
Required: Windows® 7, Vista, XP or
2003 Server

Macintosh®-based attendees
Required: Mac OS® X 10.5 or newer

Space is limited.
Reserve your Webinar seat now at:
https://www1.gotomeeting.com/register/359652552

2358. Digital Tuesday 2, 9/20/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-09-19 23:58:36 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2355 Message: 2358

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday September 20, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
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2359. Tonight's meeting

Yahoo group: DAWG-HSMM
Date: 2011-09-20 20:56:44 UTC
From: Rusty Haddock
Topic: 2359 Message: 2359

Sorry for the late itinerary but we'll try to have something interesting and techie tonight.

1) Plano Balloon Festival report.

2) Using 'ssh' to log into an interactive command line interpretor, or shell (in UnixSpeak).

2) Unix 101 -- An introduction to 'vi'. I will present an intro to the default text editor in the HSMM-MESH firmware. I'll show you how to really screw things up on your WRT54G! Oh, and EMACS is for weenies!

3) More IRC stuff -- connecting with other servers. Yes, it can be done and it's not too hairy.

```
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2360. Digital Tuesday 1, 10/4/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-09-30 23:58:32 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2360 Message: 2360

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday October 4, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
(The next reminder for this event will be sent in 3 days, 1 minute.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2361. Want to borrow: Ethernet Cable Tester

Yahoo group: DAWG-HSMM
Date: 2011-10-02 03:59:49 UTC
From: Kilgore
Topic: 2361 Message: 2361

I have a problem with a long ethernet Cat-5 cable cable I installed by pulling thru conduit. I can't get connection to ethernet switch about 150 ft away. I would like to test the cable one conductor at a time.

Does anyone have a tester or a method of testing that I could use?

Doug Kilgore KD5OUG

2362. Re: [DAWG-HSMM] Want to borrow: Ethernet Cable Tester

Yahoo group: DAWG-HSMM
Date: 2011-10-02 04:18:06 UTC
From: Mark J Culross
Topic: 2361 Message: 2362

Doug:

I have two different kinds of ethernet cable testers:

1) Fox/sounder at one end, receiver/probe at other end for testing individual wires . . . you determine which one is bad based upon your own test method . . . can be used to detect both shorts & opens (you'll need some kind of end-to-end communications between the operators at each end to coordinate your testing

2) transmitter & receiver which cycles test thru all wires & indicates which one or more is/are bad . . . the transmitter can indicate which wires are open without the need for end-to-end coomunications

I'll bring both to this week's Digital Tuesday meeting if you'll be there . . .

Mark J Culross
KD5RXT

From: Kilgore <kilgore1317@...>
To: HSMM Group <DAWG-HSMM@yahoogroups.com>
Sent: Sat, October 1, 2011 10:59:49 PM
Subject: [DAWG-HSMM] Want to borrow: Ethernet Cable Tester

I have a problem with a long ethernet Cat-5 cable cable I installed by pulling thru conduit. I can't get connection to ethernet switch about 150 ft away. I would like to test the cable one conductor at a time.

Does anyone have a tester or a method of testing that I could use?

Doug Kilgore KD5OUG

2363. Re: [DAWG-HSMM] Want to borrow: Ethernet Cable Tester

Yahoo group: DAWG-HSMM
Date: 2011-10-02 05:12:41 UTC
From: Kilgore
Topic: 2361 Message: 2363

Excellent! Will you be attending the TRS Dinner meeting on Monday night? Or I could come to Garland to your office at noon on Monday. I'm anxious to complete this project.

Doug

On 10/1/2011 11:18 PM, Mark J Culross wrote:
>
>
> Doug:
> I have two different kinds of ethernet cable testers:
> 1) Fox/sounder at one end, receiver/probe at other end for testing
> individual wires . . . you determine which one is bad based upon your
> own test method . . . can be used to detect both shorts & opens
> (you'll need some kind of end-to-end communications between the
> operators at each end to coordinate your testing
> 2) transmitter & receiver which cycles test thru all wires & indicates
> which one or more is/are bad . . . the transmitter can indicate which
> wires are open without the need for end-to-end coomunications
> I'll bring both to this week's Digital Tuesday meeting if you'll be
> there . . .
> Mark J Culross
> KD5RXT
>
>
> ----------
> *From:* Kilgore <kilgore1317@...>
> *To:* HSMM Group <DAWG-HSMM@yahoogroups.com>
> *Sent:* Sat, October 1, 2011 10:59:49 PM
> *Subject:* [DAWG-HSMM] Want to borrow: Ethernet Cable Tester
>
> I have a problem with a long ethernet Cat-5 cable cable I installed by
> pulling thru conduit. I can't get connection to ethernet switch about
> 150 ft away. I would like to test the cable one conductor at a time.
>
> Does anyone have a tester or a method of testing that I could use?
>
> Doug Kilgore KD5OUG
>
>
>
>

2364. Sweep Gear at Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2011-10-03 16:40:53 UTC
From: Cecil
Topic: 2364 Message: 2364

I am planning on being at my first Digital Tuesday tomorrow night. I am mentioning this as I will be bringing my microwave sweep gear with me.

I am just saying if you have an antenna you would like to have analyzed bring it with you and we can connect it up and see what it's SWR looks like.

This is not limited to the 2.4 range either. This gear can test from 20MHz out to 20GHz, though my test feeder cable is only rated out to 18GHz.

I would also bring your feed line/wave guide as well as it can also show any problems thwt may be in it.

I will have connectors for N, BNC, and SMA. If your cable or antenna have other connector types bring your own adapters!

-Cecil

2365. Digital Tuesday 1, 10/4/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-10-03 23:58:57 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2360 Message: 2365

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday October 4, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
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2366. Re: [DAWG-HSMM] Sweep Gear at Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2011-10-04 07:55:41 UTC
From: Rusty Haddock
Topic: 2364 Message: 2366

Cecil wrote:
>I am planning on being at my first Digital Tuesday tomorrow night.
>I am mentioning this as I will be bringing my microwave sweep gear
>with me.

That's great, Cecil! We look forward to see you there.
Thanks!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2367. Re: [DAWG-HSMM] Digital Tuesday 1, 10/4/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-10-04 08:38:49 UTC
From: Rusty Haddock
Topic: 2360 Message: 2367

DAWG-HSMM@yahoogroups.com wrote:
>Reminder from: DAWG-HSMM Yahoo! Group
> http://groups.yahoo.com/group/DAWG-HSMM/cal
>
>Digital Tuesday 1
>Tuesday October 4, 2011
>7:00 pm - 8:30 pm

Since y'all learned about logging into a shell on your mesh nodes and using 'vi' at our last meeting I'm going to give you a workout this time. (You did practice since last meeting, right???)

Actually, I've built a .ipk file for the IRC server that I've demonstrated which will ease the installation process a bit.

Alas, to get the IRC server running on your mesh node there is a configuration file that will need to be editted first. I plan to go over that as well as the things you'll need to do like pop a hole in the firewall and enabling the init script to start up on booting. <he he he>

Y'all get to be the guinea pigs for my IRC server installation instructions which will probably go up on the HSMM-MESH.org website before too long.

Along with Cecil bringing some serious microwave test equipment with him on his first visit (so bring your antennas!) we should have a hum dinger of a good time!

See ya there!

-Rusty-

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2368. Re: [DAWG-HSMM] Digital Tuesday 1, 10/4/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-10-04 11:48:24 UTC
From: Kipton Moravec
Topic: 2360 Message: 2368

On Tue, 2011-10-04 at 03:38 -0500, Rusty Haddock wrote:
> DAWG-HSMM@yahoogroups.com wrote:
> >Reminder from: DAWG-HSMM Yahoo! Group
> > http://groups.yahoo.com/group/DAWG-HSMM/cal
> >
> >Digital Tuesday 1
> >Tuesday October 4, 2011
> >7:00 pm - 8:30 pm
>
> Since y'all learned about logging into a shell on your mesh nodes and
> using 'vi' at our last meeting I'm going to give you a workout this time.
> (You did practice since last meeting, right???)
>
> Actually, I've built a .ipk file for the IRC server that I've demonstrated
> which will ease the installation process a bit.
>
> Alas, to get the IRC server running on your mesh node there is a
> configuration file that will need to be editted first. I plan to go
> over that as well as the things you'll need to do like pop a hole in the
> firewall and enabling the init script to start up on booting. <he he he>
>
> Y'all get to be the guinea pigs for my IRC server installation
> instructions which will probably go up on the HSMM-MESH.org website
> before too long.
>
> Along with Cecil bringing some serious microwave test equipment with
> him on his first visit (so bring your antennas!) we should have a hum
> dinger of a good time!
>
> See ya there!
>
> -Rusty-
>

I also got a box of 2.4 GHz PCB antennas I will be giving away at the
meeting.+-

Kip

2369. HSSM to Internet gateway.

Yahoo group: DAWG-HSMM
Date: 2011-10-05 08:03:44 UTC
From: Cecil
Topic: 2369 Message: 2369

This may be a old question, but I want to put up a HSSM to inet gateway.

What is the standard way of securing that?

Say we have an area wide test and I do not want some data flowing from the hssm to my home gate wide open for the packet sniffers to read it how do we encrypt it?

-Cecil

2370. Re: [DAWG-HSMM] HSSM to Internet gateway.

Yahoo group: DAWG-HSMM
Date: 2011-10-05 19:42:52 UTC
From: Rusty Haddock
Topic: 2369 Message: 2370

Cecil wrote:
>This may be a old question, but I want to put up a HSSM to inet gateway.
>
>What is the standard way of securing that?
>
>Say we have an area wide test and I do not want some data flowing from
>the hssm to my home gate wide open for the packet sniffers to read it
>how do we encrypt it?

Cecil,

The default for a HSMM-MESH network is to be unencrypted thus being open so that any amateur radio op can join in without the need for first obtaining a key. We can use WEP or WPA2 specifically for protecting a network from unauthorized intrusion and usage. This should cover most of it. In the event of an emergency or drill... SSH/SSL would be the way to go (e.g. https:, sftp, scp). Naturally, how the data is transferred will determine the "encryption" method.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2371. Re: [DAWG-HSMM] HSSM to Internet gateway.

Yahoo group: DAWG-HSMM
Date: 2011-10-10 11:49:47 UTC
From: Bob Diepenbrock
Topic: 2369 Message: 2371

Cecil,

I'm not totally sure what you are trying to secure. Are you trying to protect your home network from the HSMM-MESH network or are you trying to control what the HSMM-MESH network can do on the Internet?

I don't believe there is a "standard" because there is a large variation of possible ways to do network security and what you choose may impact any applications you may choose to run. For instance some VOIP protocols are not very tolerant of Network Address Translations. I'll share with you how I do this at my home, but remember you may need to do something different to support your specific applicaion.

First, I have two firewalls with a DMZ between them. My HSMM-MESH node's Internet connection is in the DMZ. It looks something like this...

```
Internet -> Firewall/router -> DMZ Subnet -> Firewall/Router -> Home Network
\-------HSMM-MESH Internet
connection
```

This arrangement puts at least one firewall/router between everything I wanted to keep separate but this requires two firewall devices.

Most folks though, don't have two firewalls and therefore cannot keep things separated like I do. So, the next best thing is to simply make the HSMM-MESH node part of your home network. This takes only one Firewalll/router to do this but it will give the HSMM-MESH node full access to all the devices in your home network:

```
Internet -> Firewall/router-> Home Network
\---> HSMM-MESH node
```

If you are concerned about keeping HSMM-MESH traffic off your home network you do have the option of adjusting the firewall on the HSMM-MESH node. This is not something you can do from the HTML (web) interface, but you have to adjust a text file on the router. If you want to look into that I'll be happy to point you in the right direction.

Finally, I would try and keep the HSMM-MESH node's Internet connection behind your firewall (and not directly on the Internet). Avoid using the "DMZ Host" settings on your residential router. There is not much more than the NAT to protect the MESH network if you are running the stock configuration, so I'd keep it behind a firewall until I had to do something different.

Good luck!

-= Bob =-

On Wed, Oct 5, 2011 at 3:03 AM, Cecil <crcasey934@...> wrote:

> **
>
>
> This may be a old question, but I want to put up a HSSM to inet gateway.
>
> What is the standard way of securing that?
>
> Say we have an area wide test and I do not want some data flowing from the
> hssm to my home gate wide open for the packet sniffers to read it how do we
> encrypt it?
>
> -Cecil
>
>
>

2372. Re: [DAWG-HSMM] HSSM to Internet gateway.

Yahoo group: DAWG-HSMM
Date: 2011-10-10 13:16:35 UTC
From: Kipton Moravec
Topic: 2369 Message: 2372

I have the same setup as Bob.

My Verizon FIOS Router is the main firewall for my house. It has 4 ports and provide a 192.168.1.* network.

Into that router I plug my home router which has a NAT of 192.168.2.* for my 6-10 computers in the house.

I also plug a HSMM-MESH node in the the FIOS router. That way HSMM-MESH traffic can go to the Internet, but not to my home network.

Finally I have a server also plugged into the FIOS router. Because it is on the path to the Internet, both the HSMM-MESH and home network can "see" it. I have not figured how to make the routers point to it, so I add its static address to the hosts file on my computers.

Kip

On Mon, 2011-10-10 at 06:49 -0500, Bob Diepenbrock wrote:
>
>
> Cecil,
>
> I'm not totally sure what you are trying to secure. Are you trying to
> protect your home network from the HSMM-MESH network or are you trying
> to control what the HSMM-MESH network can do on the Internet?
>
> I don't believe there is a "standard" because there is a large
> variation of possible ways to do network security and what you choose
> may impact any applications you may choose to run. For instance some
> VOIP protocols are not very tolerant of Network Address
> Translations. I'll share with you how I do this at my home, but
> remember you may need to do something different to support your
> specific applicaion.
>
> First, I have two firewalls with a DMZ between them. My HSMM-MESH
> node's Internet connection is in the DMZ. It looks something like
> this...
>
> Internet -> Firewall/router -> DMZ Subnet -> Firewall/Router -> Home
> Network
> \-------HSMM-MESH
> Internet connection
>
> This arrangement puts at least one firewall/router between everything
> I wanted to keep separate but this requires two firewall devices.

>
> Most folks though, don't have two firewalls and therefore cannot keep
> things separated like I do. So, the next best thing is to simply make
> the HSMM-MESH node part of your home network. This takes only one
> Firewalll/router to do this but it will give the HSMM-MESH node full
> access to all the devices in your home network:
>
> Internet -> Firewall/router-> Home Network
> \---> HSMM-MESH node
>
> If you are concerned about keeping HSMM-MESH traffic off your home
> network you do have the option of adjusting the firewall on the
> HSMM-MESH node. This is not something you can do from the HTML (web)
> interface, but you have to adjust a text file on the router. If you
> want to look into that I'll be happy to point you in the right
> direction.
>
> Finally, I would try and keep the HSMM-MESH node's Internet connection
> behind your firewall (and not directly on the Internet). Avoid using
> the "DMZ Host" settings on your residential router. There is not much
> more than the NAT to protect the MESH network if you are running the
> stock configuration, so I'd keep it behind a firewall until I had to
> do something different.
>
> Good luck!
>
> -= Bob =-
>
>
> On Wed, Oct 5, 2011 at 3:03 AM, Cecil <crcasey934@...> wrote:
>
> This may be a old question, but I want to put up a HSSM to
> inet gateway.
>
> What is the standard way of securing that?
>
> Say we have an area wide test and I do not want some data
> flowing from the hssm to my home gate wide open for the packet
> sniffers to read it how do we encrypt it?
>
> -Cecil
>
>
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>

2373. Re: APPROVE -- jf4164 wants to join DAWG-HSMM

Yahoo group: DAWG-HSMM
Date: 2011-10-12 16:29:49 UTC
From: Kilgore
Topic: 2373 Message: 2373

Just added to this Yahoo group.

Doug Kilgore KD5OUG

On 10/12/2011 11:09 AM, Yahoo! Groups Notification wrote:
> Hello,
>
> The following person would like to join the DAWG-HSMM group:
>
> Comment from user:
> My call is WA4VPY--located in West Palm Beach, Fl. Our radio club is
> actively building a HSMM node system. I have three nodes up and running.
> Just want to see what others are doing. thanks
>
>
>
>
>

2374. Re: [DAWG-HSMM] HSSM to Internet gateway.

Yahoo group: DAWG-HSMM
Date: 2011-10-13 02:46:37 UTC
From: Bob Diepenbrock
Topic: 2369 Message: 2374

Kip,

If you have the same Verizon router (Actiontec) I have, you can add
local DNS entries for host names of your choice. If your DNS path goes
though the Verizon router it will resolve these names for you. It is under
Advanced -> DNS Server on mine.

Failing that, one could run a local DNS server on your network. Bind
doesn't use too many resources and if you do DNS a cache at the same time it
can help your local network's performance. If your DMZ server is Unix based,
it would be pretty easy to get going.

-= Bob =-

On Mon, Oct 10, 2011 at 8:16 AM, Kipton Moravec <kip@...> wrote:

> **
>
>
> I have the same setup as Bob.
>
> My Verizon FIOS Router is the main firewall for my house. It has 4 ports
> and provide a 192.168.1.* network.
>
> Into that router I plug my home router which has a NAT of 192.168.2.*
> for my 6-10 computers in the house.
>
> I also plug a HSMM-MESH node in the the FIOS router. That way HSMM-MESH
> traffic can go to the Internet, but not to my home network.
>
> Finally I have a server also plugged into the FIOS router. Because it is
> on the path to the Internet, both the HSMM-MESH and home network can
> "see" it. I have not figured how to make the routers point to it, so I
> add its static address to the hosts file on my computers.
>
> Kip
>
> On Mon, 2011-10-10 at 06:49 -0500, Bob Diepenbrock wrote:
> >
> >
> > Cecil,
> >
> > I'm not totally sure what you are trying to secure. Are you trying to
> > protect your home network from the HSMM-MESH network or are you trying
> > to control what the HSMM-MESH network can do on the Internet?
> >

> > I don't believe there is a "standard" because there is a large
> > variation of possible ways to do network security and what you choose
> > may impact any applications you may choose to run. For instance some
> > VOIP protocols are not very tolerant of Network Address
> > Translations. I'll share with you how I do this at my home, but
> > remember you may need to do something different to support your
> > specific applicaion.
> >
> > First, I have two firewalls with a DMZ between them. My HSMM-MESH
> > node's Internet connection is in the DMZ. It looks something like
> > this...
> >
> > Internet -> Firewall/router -> DMZ Subnet -> Firewall/Router -> Home
> > Network
> > \-------HSMM-MESH
> > Internet connection
> >
> > This arrangement puts at least one firewall/router between everything
> > I wanted to keep separate but this requires two firewall devices.
> >
> > Most folks though, don't have two firewalls and therefore cannot keep
> > things separated like I do. So, the next best thing is to simply make
> > the HSMM-MESH node part of your home network. This takes only one
> > Firewalll/router to do this but it will give the HSMM-MESH node full
> > access to all the devices in your home network:
> >
> > Internet -> Firewall/router-> Home Network
> > \---> HSMM-MESH node
> >
> > If you are concerned about keeping HSMM-MESH traffic off your home
> > network you do have the option of adjusting the firewall on the
> > HSMM-MESH node. This is not something you can do from the HTML (web)
> > interface, but you have to adjust a text file on the router. If you
> > want to look into that I'll be happy to point you in the right
> > direction.
> >
> > Finally, I would try and keep the HSMM-MESH node's Internet connection
> > behind your firewall (and not directly on the Internet). Avoid using
> > the "DMZ Host" settings on your residential router. There is not much
> > more than the NAT to protect the MESH network if you are running the
> > stock configuration, so I'd keep it behind a firewall until I had to
> > do something different.
> >
> > Good luck!
> >
> > -= Bob =-
> >
> >
> > On Wed, Oct 5, 2011 at 3:03 AM, Cecil <crcasey934@...> wrote:
> >

> > This may be a old question, but I want to put up a HSSM to
> > inet gateway.
> >
> > What is the standard way of securing that?
> >
> > Say we have an area wide test and I do not want some data
> > flowing from the hssm to my home gate wide open for the packet
> > sniffers to read it how do we encrypt it?
> >
> > -Cecil
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2375. ipv6 allocation for ampr.org?

Yahoo group: DAWG-HSMM
Date: 2011-10-14 02:13:32 UTC
From: wa3ite
Topic: 2375 Message: 2375

Anyone know if there's an IPv6 allocation for ampr.org?

2376. Re: So no takers on a 65-foot tower climb?

Yahoo group: DAWG-HSMM
Date: 2011-10-14 02:32:38 UTC
From: wa3ite
Topic: 2154 Message: 2376

Well, after not hearing back from anyone in the past 4 months who might be willing to help with this, I can only assume new nodes aren't needed in the local HSMM network. Now that school's started back up, I don't have the time to work on this. I'll hang onto my nodes and maybe dig them back out when I have time (and there's interest in expanding the network).

--Brian

--- In DAWG-HSMM@yahoogroups.com, "wa3ite" <brianko@...> wrote:
>
> I'd be willing to host a node if someone would be willing to climb a 65-foot tower to install the antenna (my limit is about 30 feet). This would fill in a big gap between the nodes to the north and the nodes in Mesquite. I'm assuming we can make a coax run from base to top without any significant loss in signal strength? If so, what's normally used for run of this length?
>

2377. Re: [DAWG-HSMM] ipv6 allocation for ampr.org?

Yahoo group: DAWG-HSMM
Date: 2011-10-14 03:05:10 UTC
From: Eric Fort
Topic: 2375 Message: 2377

Not that I know of. it was discussed on the gateways list a few months ago but with gateways dying and shutting down I don't think it went anywhere. many of the issues related to getting ip space at this point for amprnet are related to cost (who pays the associated fees), justification (how will it be efficiently managed and used?...), and who administrates the business side of such an allocation. Beyond that is the issues and limitations that vary by country as to what traffic amprnet would be permitted to carry and just how interconnected it can and/or should be. beyond that is the question of who will build out the network islands be connected. I really like seeing what is being done with HSMM but there seems to not be enough of it. How for instance does one do a backbone link from say LA to Dallas? who pays for and maintains that link? Don't these issues really need resolved first, before one goes looking to justify to others the allocation of such resources?

Eric
AF6EP

On Thu, Oct 13, 2011 at 7:13 PM, wa3ite <brianko@gmail.com> wrote:

> **
>
>
> Anyone know if there's an IPv6 allocation for ampr.org?
>
>
>

2378. Digital Tuesday 2, 10/18/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-10-14 23:58:42 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2378 Message: 2378

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday October 18, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
(The next reminder for this event will be sent in 3 days, 1 minute.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2379. Re: ipv6 allocation for ampr.org?

Yahoo group: DAWG-HSMM
Date: 2011-10-15 04:07:47 UTC
From: wa3ite
Topic: 2375 Message: 2379

--- In DAWG-HSMM@yahoogroups.com, Eric Fort <eric.fort@...> wrote:
>
> Not that I know of. it was discussed on the gateways list a few months ago
> but with gateways dying and shutting down I don't think it went anywhere.
> many of the issues related to getting ip space at this point for amprnet are
> related to cost (who pays the associated fees), justification (how will it
> be efficiently managed and used?...), and who administrates the business
> side of such an allocation.

I was thinking about approaching an organization like Hurricane Electric. They will pretty much give you a /48 IPv6 allocation just for asking. So I don't think there's really a "business side" to deal with. HSMM to Internet gateways can be assigned a unique TLD via one of the altroots (like OpenNIC); zones can be maintained by a dedicated group of volunteers.

Beyond that is the issues and limitations that
> vary by country as to what traffic amprnet would be permitted to carry and
> just how interconnected it can and/or should be.

Nothing that hasn't been addressed in years past with packet radio gateways. IPv6 doesn't change anything here.

At any rate, I don't even know if HSMM is IPv6-compatible. I was hoping someone would chime in here.

2380. Re: [DAWG-HSMM] Re: ipv6 allocation for ampr.org?

Yahoo group: DAWG-HSMM
Date: 2011-10-15 15:41:00 UTC
From: Bob Diepenbrock
Topic: 2375 Message: 2380

On IPV6 and HSMM-MESH...

Right now, IPV6 is not supported "out of the box." The generated MESH networks are IPV4 at this time and the user interface is geared towards IPV4.

On linking HSMM-MESH Networks...

Using the Internet (or other links outside the MESH) to link MESH networks is also not support by the current "out of the box" firmware.

This is not to say that either of these are impossible to do, but one would certainly have to make adjustments outside the provided web interface. I believe that Open WRT supports IPV6 but you would likely have to adjust a lot of the HSMM-MESH configuration by hand and I think you would have to replace at least OLSR with an IPV6 version. I thought that one might run IPV6 in parallel with IPV4, but I don't know if the hardware would have enough performance to handle both at the same time.

-= Bob =-
On Fri, Oct 14, 2011 at 11:07 PM, wa3ite <brianko@...> wrote:

> **
>
>
>
>
> --- In DAWG-HSMM@yahoogroups.com, Eric Fort <eric.fort@...> wrote:
> >
> > Not that I know of. it was discussed on the gateways list a few months
> ago
> > but with gateways dying and shutting down I don't think it went anywhere.
> > many of the issues related to getting ip space at this point for amprnet
> are
> > related to cost (who pays the associated fees), justification (how will
> it
> > be efficiently managed and used?...), and who administrates the business
> > side of such an allocation.
>
> I was thinking about approaching an organization like Hurricane Electric.
> They will pretty much give you a /48 IPv6 allocation just for asking. So I
> don't think there's really a "business side" to deal with. HSMM to Internet
> gateways can be assigned a unique TLD via one of the altroots (like
> OpenNIC); zones can be maintained by a dedicated group of volunteers.
>
> Beyond that is the issues and limitations that

> > vary by country as to what traffic amprnet would be permitted to carry
> and
> > just how interconnected it can and/or should be.
>
> Nothing that hasn't been addressed in years past with packet radio
> gateways. IPv6 doesn't change anything here.
>
> At any rate, I don't even know if HSMM is IPv6-compatible. I was hoping
> someone would chime in here.
>
>
>

2381. Fwd: [NTMS] Fw: Mesh Antennas

Yahoo group: DAWG-HSMM
Date: 2011-10-15 19:19:31 UTC
From: Kilgore
Topic: 2381 Message: 2381
Attachments: 3 described; binary payloads are missing from this source WARC

-------- Original Message --------
Subject: [NTMS] Fw: Mesh Antennas
Date: Fri, 14 Oct 2011 22:44:21 -0500
From: Craig S. Young <ka5bou@...>
To: <ntms@...>

From: Robert <mailto:w5@...>
Sent: Friday, October 14, 2011 8:31 AM
To: ka5bou@... <mailto:ka5bou@...>
Subject: Mesh Antennas

Craig:

I am moving out of state and have two mesh antennas that need homes.
The smaller one has a Pacific Monolithics downconverter.

Attached are some pictures. I live in Parker at 4307 Countryside Drive.

If someone is interested in these, I will convey to them rather than
throwing away.

73...Robert W5IUA

cell/text 214-476-7814

2382. Digital Tuesday 2, 10/18/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-10-17 23:58:43 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2378 Message: 2382

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday October 18, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2383. Tonight's meeting - Oct. 18th

Yahoo group: DAWG-HSMM
Date: 2011-10-18 20:03:48 UTC
From: Rusty Haddock
Topic: 2383 Message: 2383

```
Lessee... for tonight's meeting we have:

1) Discussion/planning about field ops at PARK in the PARK.
2) Hopefully someone took on and completed the assignment
of installing a simple FTP server on their mesh node.
That lucky person gets to present how to do it!
3) What was not presented last time -- Installing an IRC
server on your mesh node.

Come and join us! Same Bat Time, Same Bat Channel!

And if you're not into bats (shame on you! especially around Halloween :-)

We start around 7pm
299 Connor Rd, Lucas, TX
Follow the driveway to the back gate and to the pool house.

Map: http://tinyurl.com/3pw5fvq

Talk-in will be on the Plano repeater, 147.180+ PL107.2 (which is announced).

See you there!
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2384. Newegg WRT54GL sale

Yahoo group: DAWG-HSMM
Date: 2011-10-20 07:58:37 UTC
From: Todd Caldwell
Topic: 2384 Message: 2384

If anyone is in the market for a new GL, Newegg has a 72 hour sale on.

http://www.newegg.com/Product/Product.aspx?Item=N82E1683312419

$49.99 with promo code EMCJKHK57

73's

Todd - K5SLR

2385. Re: [DAWG-HSMM] Newegg WRT54GL sale

Yahoo group: DAWG-HSMM
Date: 2011-10-20 19:57:44 UTC
From: Gregg Wonderly
Topic: 2384 Message: 2385

On 10/20/2011 2:58 AM, Todd Caldwell wrote:
> If anyone is in the market for a new GL, Newegg has a 72 hour sale on.
>
> http://www.newegg.com/Product/Product.aspx?Item=N82E1683312419
>
> $49.99 with promo code EMCJKHK57

The promo code is available only if you allow them to put you on their mailing list.

Gregg
W5GGW

> 73's
>
> Todd - K5SLR
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

2386. Digital Tuesday 1, 11/1/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-10-28 23:58:58 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2386 Message: 2386

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday November 1, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
(The next reminder for this event will be sent in 3 days, 1 minute.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2387. Digital Tuesday 1, 11/1/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-10-31 23:58:44 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2386 Message: 2387

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday November 1, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
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Talk-in 147.18+ PL 107.2

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2388. Digital Tuesday -- TONIGHT!

Yahoo group: DAWG-HSMM
Date: 2011-11-01 21:20:58 UTC
From: Rusty Haddock
Topic: 2388 Message: 2388

Yep, it's the first day of the month and it's a Tuesday so....
WE ARE HAVING A DIGITAL TUESDAY MEETING TONIGHT.

Sorry for the late adgenda (I just made it up :-):

1) SET drill this weekend
2) Any more IRC stuff?
3) Anonymous FTP server setup -- yes, I got it working!

Bring your toys, boys! Naturally, the femail of the species is
certainly welcome. :-)

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2389. Re: Digital Tuesday -- TONIGHT!

Yahoo group: DAWG-HSMM
Date: 2011-11-02 06:18:56 UTC
From: Cecil
Topic: 2388 Message: 2389

Hay Rusty,

I noticed something strange. When you power cycle the router the FTP directory /var/ftp (root home dir) disappears.

I am guessing that this file system is uncompressed every boot into the working area in RAM. This calls for a small change in /etc/init.d of the pure-ftp startup script.

```
#!/bin/sh /etc/rc.common
# Copyright (C) 2006 OpenWrt.org

START=50

BIN=pure-ftpd

DEFAULT=/etc/default/$BIN
LOG_D=/var/log/$BIN
RUN_D=/var/run
PID_F=$RUN_D/$BIN.pid
HOME_D=/var/ftp
OPTIONS="-A -B -c 10 -C 4 -e -lunix -U 133:022 -g $PID_F -y 3:4"
[ -f $DEFAULT ] && . $DEFAULT

start() {
mkdir -p $LOG_D
mkdir -p $RUN_D
mkdir -p $HOME_D
chown ftp $HOME_D
$BIN $OPTIONS
}

stop() {
[ -f $PID_F ] && kill $(cat $PID_F)
}
```

This should create the root ftp directory on power on reset.

-Cecil

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:

>
> Yep, it's the first day of the month and it's a Tuesday so....
> WE ARE HAVING A DIGITAL TUESDAY MEETING TONIGHT.
>
> Sorry for the late adgenda (I just made it up :-):
>

```
> 1) SET drill this weekend
> 2) Any more IRC stuff?
> 3) Anonymous FTP server setup -- yes, I got it working!
>
> Bring your toys, boys! Naturally, the femail of the species is
> certainly welcome. :-)
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | ( -< O o Van Alstyne (TX) Metropolitan Area
> |/\__V__/ Math illiteracy affects 7 out of 5 people!
>
```

2390. Re: [DAWG-HSMM] Re: Digital Tuesday -- TONIGHT!

Yahoo group: DAWG-HSMM
Date: 2011-11-02 08:39:42 UTC
From: Rusty Haddock
Topic: 2388 Message: 2390

Cecil wrote:
>Hay Rusty,

Don't like hay -- prefer alfalfa or a nice winter wheat. :-)

>I noticed something strange. When you power cycle the router the FTP
>directory /var/ftp (root home dir) disappears.
>
>I am guessing that this file system is uncompressed every boot into the

Nice guess, especially for larger systems with the flash or hard disk space to store a compressed file system, but basically incorrect for our little WRT54G. :-)

The /tmp filesystem is simply created like most RAM disks and the init scripts and consequent applications create their files in /tmp as needed.

>working area in RAM. This calls for a small change in /etc/init.d of
>the pure-ftp startup script.

Indeed it does! I'll try to put this into my instructions for installing this FTP daemon. Thanks! Sure wish we didn't have to go through this level of manual diddling but... you only have to do it once

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2391. Re: Digital Tuesday -- TONIGHT!

Yahoo group: DAWG-HSMM
Date: 2011-11-02 14:48:27 UTC
From: Cecil
Topic: 2388 Message: 2391

Well as usual, at least I almost got it half right. :)

I looked at your article on the IRC server at HSMM-Mesh.org and could not find a link to the ngircd_18_mipsel.ipk package.

You mentioned it was on your server, could you post a link please?

Thanks

-Cecil

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> Cecil wrote:
> >Hay Rusty,
>
> Don't like hay -- prefer alfalfa or a nice winter wheat. :-)
>
> >I noticed something strange. When you power cycle the router the FTP
> >directory /var/ftp (root home dir) disappears.
> >
> >I am guessing that this file system is uncompressed every boot into the
>
> Nice guess, especially for larger systems with the flash or hard disk
> space to store a compressed file system, but basically incorrect for our
> little WRT54G. :-)
>
> The /tmp filesystem is simply created like most RAM disks and the init
> scripts and consequent applications create their files in /tmp as needed.
>
> >working area in RAM. This calls for a small change in /etc/init.d of
> >the pure-ftp startup script.
>
> Indeed it does! I'll try to put this into my instructions for installing
> this FTP daemon. Thanks! Sure wish we didn't have to go through this
> level of manual diddling but... you only have to do it once
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>

2392. Dallas Makerspace Open House

Yahoo group: DAWG-HSMM
Date: 2011-11-02 16:28:35 UTC
From: Nikropht
Topic: 2392 Message: 2392

I would like to invite you guys out to the annual Dallas Makerspace Open House event this Saturday at 1pm.

Additionally I will be helping to get the membership licenses http://dallasmakerspace.org/wiki/Amateur_Radio_Class, they are interested in being a node in the mesh network.
The space is roughly located at Walnut Hill and Monroe Drive in Dallas http://g.co/maps/mcv89

*"This is our first open house at our new location, and we want to show off all four thousand square feet off it. We have a lot of projects to show off, activities to partake in, classes to learn from, and food to eat; so come on out, bring your friends and family.

The doors open at 1pm Saturday, November 5th and will stay open until we’re too tired to talk (probably around midnight). As we confirm projects, activities and classes we will be updating the 2011 Open House<http://dallasmakerspace.org/wiki/Open_House_2011> page on our wiki, so keep checking back."
*

About DMS
Dallas Makerspace is a membership based, 501(c)(3) non-profit, shared community workshop and laboratory, similar to a hackerspace. We are an organized group of local artists, engineers, makers, creators, and thinkers that work together to collect tools and resources for our membership, who could not otherwise afford, store, or use them individually. We use these resources to collaborate on individual and community projects in order to promote science and technology, while working and experimenting on innovative ideas to encourage learning within our community.

-Mike Eber KD5QLN

2393. Re: [DAWG-HSMM] Re: Digital Tuesday -- TONIGHT!

Yahoo group: DAWG-HSMM
Date: 2011-11-02 17:15:38 UTC
From: Rusty Haddock
Topic: 2388 Message: 2393

Cecil wrote:
>Well as usual, at least I almost got it half right. :)
>
>I looked at your article on the IRC server at HSMM-Mesh.org and
>could not find a link to the ngircd_18_mipsel.ipk package.
>
>You mentioned it was on your server, could you post a link please?

Sure,
http://myweb.cableone.net/rhaddock/Radio/ngircd_18_mipsel.ipk

Be careful about the download -- some browsers may rename the file
with a .gz extension (or something else depending on the browser).
If this occurs, please rename the file to have the .ipk extension as
the HSMM-MESH firmware expects that extension.

The instructions on HSMM-MESH.org will be updated as soon as the
configuration web page has been completed. The web page will remove
all need for ssh and vi to get the IRC daemon up and running.

>Thanks

No charge. :-)

Oh, and for those that actually took notes last night. The incantation I
had for having your mesh node use local time was slightly amiss. The 'm's
indeed should have been capitalized and some 1's should have been 0's.
This is the correct shell command:

echo "CST6CDT5,M3.2.0,M11.1.0" > /etc/TZ

Yes, capitalization is IMPORTANT! :-) And if your node is not connected
to the Internet, setting your node's idea of time and date would be done
like this:

date MMDDhhmmCCYY.ss

The century (CC), year (YY), and seconds (.ss) are optional but, if
you're like me (may God have mercy on your soul!), you'll probably want to
include at least the full year or your dates could be about 40-years old.
So, setting the time and date when I write this would look something like:

date 110211572011.30

Yes, all fields need to be zero-padded so that February 2nd, would be 0202.

Then again, there's nothing in the HSMM-MESH firmware that will run
incorrectly if the date and time are not set. This is simply a personal

thingie with me.

Happy meshing!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2394. Re: Digital Tuesday -- TONIGHT!

Yahoo group: DAWG-HSMM
Date: 2011-11-03 01:54:35 UTC
From: Cecil
Topic: 2388 Message: 2394

What holes do I need to punch in my DSL to allow HSMM to tie into the Internet as a gateway?

Any other config changes needed to go fully online?

-Cecil

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> Cecil wrote:
> >Well as usual, at least I almost got it half right. :)
> >
> >I looked at your article on the IRC server at HSMM-Mesh.org and
> >could not find a link to the ngircd_18_mipsel.ipk package.
> >
> >You mentioned it was on your server, could you post a link please?
>
> Sure,
> http://myweb.cableone.net/rhaddock/Radio/ngircd_18_mipsel.ipk
>
> Be careful about the download -- some browsers may rename the file
> with a .gz extension (or something else depending on the browser).
> If this occurs, please rename the file to have the .ipk extension as
> the HSMM-MESH firmware expects that extension.
>
> The instructions on HSMM-MESH.org will be updated as soon as the
> configuration web page has been completed. The web page will remove
> all need for ssh and vi to get the IRC daemon up and running.
>
> >Thanks
>
> No charge. :-)
>
> Oh, and for those that actually took notes last night. The incantation I
> had for having your mesh node use local time was slightly amiss. The 'm's
> indeed should have been capitalized and some 1's should have been 0's.
> This is the correct shell command:
>
> echo "CST6CDT5,M3.2.0,M11.1.0" > /etc/TZ
>
> Yes, capitalization is IMPORTANT! :-) And if your node is not connected
> to the Internet, setting your node's idea of time and date would be done
> like this:
>
> date MMDDhhmmCCYY.ss
>

```
> The century (CC), year (YY), and seconds (.ss) are optional but, if
> you're like me (may God have mercy on your soul!), you'll probably want to
> include at least the full year or your dates could be about 40-years old.
> So, setting the time and date when I write this would look something like:
>
> date 110211572011.30
>
> Yes, all fields need to be zero-padded so that February 2nd, would be 0202.
>
> Then again, there's nothing in the HSMM-MESH firmware that will run
> incorrectly if the date and time are not set. This is simply a personal
> thingie with me.
>
> Happy meshing!
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | ( -< O o Van Alstyne (TX) Metropolitan Area
> |/\__V__/ Math illiteracy affects 7 out of 5 people!
>
```

2395. Re: [DAWG-HSMM] Re: Digital Tuesday -- TONIGHT!

Yahoo group: DAWG-HSMM
Date: 2011-11-03 06:29:37 UTC
From: Rusty Haddock
Topic: 2388 Message: 2395

Cecil wrote:
>What holes do I need to punch in my DSL to allow HSMM to tie into
>the Internet as a gateway?
>
>Any other config changes needed to go fully online?

Not sure what you're planning to do unless you get a little more explicit.
If you plug the wan port of one of your HSMM-MESH routers into your
DSL modem/router anything on your mesh can access the Internet.
That's basically how the mesh is intended to be used.

Keep in mind that the 10.x.x.x addresses of the mesh will not get routed
onto the Internet.

Coming back in is a good bit different. Any service you want to provide
to the outside should be on your mesh GW node or a host connected to
its LAN. Elsewhere on your mesh will require manual manipulation of
the firewall configuration files.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2396. Re: [DAWG-HSMM] Re: Digital Tuesday -- TONIGHT!

Yahoo group: DAWG-HSMM
Date: 2011-11-03 12:33:06 UTC
From: Kipton Moravec
Topic: 2388 Message: 2396

On Thu, 2011-11-03 at 01:29 -0500, Rusty Haddock wrote:
> Cecil wrote:
> >What holes do I need to punch in my DSL to allow HSMM to tie into
> >the Internet as a gateway?
> >
> >Any other config changes needed to go fully online?
>
> Not sure what you're planning to do unless you get a little more explicit.
> If you plug the wan port of one of your HSMM-MESH routers into your
> DSL modem/router anything on your mesh can access the Internet.
> That's basically how the mesh is intended to be used.
>
> Keep in mind that the 10.x.x.x addresses of the mesh will not get routed
> onto the Internet.
>
> Coming back in is a good bit different. Any service you want to provide
> to the outside should be on your mesh GW node or a host connected to
> its LAN. Elsewhere on your mesh will require manual manipulation of
> the firewall configuration files.
>
> -Rusty-

It will automatically connect to the Internet if you hook into the WAN port. But to let other nodes know it is connected the gateway box has to be checked in the Setup/Configuration window.

Kip

2397. FTP Server instructions

Yahoo group: DAWG-HSMM
Date: 2011-11-06 06:16:00 UTC
From: Rusty Haddock
Topic: 2397 Message: 2397
Attachments: 2 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

2398. Why ChatZilla will not work with our IRC links

Yahoo group: DAWG-HSMM
Date: 2011-11-09 20:38:10 UTC
From: Rusty Haddock
Topic: 2398 Message: 2398

OK, now that I've investigated it somewhat I thought I'd share my results with y'all. ChatZilla is an addon for, at least, the FireFox browser and from all accounts it will not connect to the server nor the channel/chatroom from the URL links on the Mesh Status page of our nodes.

The reason for this is:

Remember that when IRC servers are linked together they essentially form an acyclic network (albiet virtual) on top of a real network (TCP/IP). There are some rather large and quite popular IRC networks on the Internet such as DalNet, EFNet, and FreeNode to name a few, each consisting of hundreds if not thousands of servers.

With that in mind, apparently ChatZilla interprets URLs somewhat differently. Presonally, I'd call this a bug but that's just my opinion, as humble as it gets. :-) Given a URL such as what our mesh node advertize:

irc://ae5ae-port1:6667/mesh

The ae5ae-port1 is generally considered a host name with the :6667 indicating a port number to connect to. Alas, ChatZilla parses that a little different IFF (if and only if) the hostname does NOT contain a period. If no period is found then the "Hostname" is now evaluated by ChatZilla as an IRC Network name of which it knows of about a dozen. Consequently, in the example above, ae5ae-port1 is considered an IRC network and ChatZilla doesn't know how to connect it.

Apparently you can create a network alias for a server once you connect to it and consequent URL links on our meshes to THAT ONE SERVER will work. The trouble appears to be twofold: One, you have to connect to each server to create an alias. Two, and the real kicker is, once you quit ChatZilla those aliases are not saved, as far as I can tell there is no way to do so. Someone please correct me if there is a way.

Another work around attempt is that ChatZilla will accept a ",isserver" suffix in the URL to qualify the network name as an actual server. The problem here is this suffix doesn't appear to work with other browsers. Also, even if it did work I haven't been able to successfully add this suffix to a link for advertizing on the mesh. There's something about that comma the Perl scripts on our nodes do not like. Yes, I even tried disguising the comma as a %2C, the HTML escape for special characters. Both the comma and the %2C are accepted and apparently saved but... the link does not get advertised.

So, for now, ChatZilla, while apparently a fairly decent program, doesn't appear to work for us. The version of ChatZilla I've been using is version 0.9.87.

Disclaimer: all my testing and poking about has been on Linux.
Your mileage may vary with Microsoft Windows products and applications.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2399. ARRL Committee Seeks Microwave Band Plan Input

Yahoo group: DAWG-HSMM
Date: 2011-11-11 06:45:48 UTC
From: kb9mwr
Topic: 2399 Message: 2399

"An ARRL Ad Hoc Committee has been tasked by the Board of Directors with recommending updates to the ARRL band plans for the amateur bands between 902 MHz and 3.5 GHz. If you are now active on any of these bands or are developing plans to do so, the committee would like to hear from you."

You have till December 15th to respond.

http://www.arrl.org/news/arrl-committee-seeks-microwave-band-plan-input

2400. Digital Tuesday 2, 11/15/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-11-12 00:55:33 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2400 Message: 2400

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday November 15, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
(The next reminder for this event will be sent in 3 days, 4 minutes.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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http://docs.yahoo.com/info/terms/

2401. New file uploaded to DAWG-HSMM

Yahoo group: DAWG-HSMM
Date: 2011-11-12 21:03:04 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2065 Message: 2401

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the DAWG-HSMM
group.

File : /Adding the FOSCAM FI8918W to your mesh network - 20111111.pdf
Uploaded by : kd5rxt_mark <mjculross@...>
Description : Step-by-step instructions for adding a FOSCAM FI8918W IP camera behind the firewall on one of your mesh nodes, but accessible by any computer connected to any node on your mesh network. Mark J Culross, KD5RXT

You can access this file at the URL:
http://groups.yahoo.com/group/DAWG-HSMM/files/Adding%20the%20FOSCAM%20FI8918W%20to%20your%20mesh%20network%20-%2020111111.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

kd5rxt_mark <mjculross@...>

2402. Digital Tuesday 2, 11/15/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-11-15 00:55:34 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2400 Message: 2402

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday November 15, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2403. Tonight's Digital Tuesday Meeting, Nov. 15th.

Yahoo group: DAWG-HSMM
Date: 2011-11-15 10:54:23 UTC
From: Rusty Haddock
Topic: 2403 Message: 2403

Lessee... for tonight's meeting we have: (he says while trying to come up with something educational and possibly entertaining...)

1) What's going on in my mesh? A brief intro to WireShark (formally known as Ethereal).
2) If that's too much for you, maybe a quickie on 'tcpdump'. A similar program but without the graphics AND it runs on your mesh node!
3) Maybe we'll go over why ChatZilla doesn't work out so well for us with the IRC server.

Naturally, I'm always up for answering questions, especially if you're just getting started with HSMM-MESH.

Come and join us! Same Bat Time, Same Bat Channel!

And if you're not into bats...

We start around 7pm
299 Connor Rd, Lucas, TX
Follow the driveway to the back gate and to the pool house.

Map: http://tinyurl.com/3pw5fvq

Talk-in will be on the Plano repeater, 147.180+ PL107.2 (which is announced).

See you there!
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2404. New Subscriber

Yahoo group: DAWG-HSMM
Date: 2011-11-16 19:06:36 UTC
From: Kilgore
Topic: 2404 Message: 2404

On 11/16/2011 9:59 AM, Yahoo! Groups Notification wrote:
> The following person would like to join the DAWG-HSMM group:
> Email address: rwright56<rwright@...>
>
> Comment from user:
> I am Robert Wright, N7ZO, in Portland Oregon. I am researching HSMM-MESH
> networks.

2405. USB JTAG (fwd)

Yahoo group: DAWG-HSMM
Date: 2011-11-16 19:55:36 UTC
From: Rusty Haddock
Topic: 2405 Message: 2405

For what it's worth... if anyone wants to get the JTAG adapter
that Mark showed off last night, here's the info. Thanks Mark!

-Rusty-

----- Start forwarded message -----
Rusty:

The USB-based JTAG adapter that I demonstrated at last night's Digital
Tuesday meeting can be found at the following URL:

??
http://www.diygadget.com/jtag-cables/tiao-usb-multi-protocol-adapter-jtag-spi-i2c-serial.html

You can find the zJTAG.exe application that was also part of the
demonstration on their website at the following URL:

?? http://www.tiaowiki.com/download//category.php?id=8

Good luck & have fun !!

Mark J Culross
KD5RXT
----- End forwarded message -----

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2406. Digital Tuesday Field Activity

Yahoo group: DAWG-HSMM
Date: 2011-11-16 23:00:07 UTC
From: Rusty Haddock
Topic: 2406 Message: 2406

As discussed at the meeting last night, we're planning to get together for a HSMM-MESH outdoor activity at the Plano ARK's PARK in the PARK activity this Sunday, November 20. Time is from 1 to 4pm. Place is the pavilion at (north end of) Oak Point Park and Nature Preserve, 5901 Los Rios Blvd in Plano (whoda thunk? :-). Here's a lat/lon that might be a bit more explicit:

N 33.05755 W -96.67254

Current WX forecasts indicates that the temperatures will be in the 70's so it should be fairly pleasant!

What to bring? Oh, the usual... laptop, WRT54G{,L,S}, battery, maybe some sort of stand to put your '54G above the ground. A "lollipop" is cheap and eazy to construct from a 5-gallon paint bucket, a 10-ft piece of 1.25" PVC, a few cable ties, an extension for your 12-v power or POE adapters, and... yeah, a few rocks or bricks for ballast in the bucket.

Any more to add, Kip? BTW, I don't see this on the PARK calendar. :-o

```
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2407. HSMM Stuff for Sale

Yahoo group: DAWG-HSMM
Date: 2011-11-19 20:25:47 UTC
From: w5adc@yahoo.com
Topic: 2407 Message: 2407

The pile really does need to get smaller. Here is some HSMM stuff that you might be interested in:

Linksys WRT54GS-RM
Linksys WRT54GL v1.1
Linksys WRT54G v2.2 missing one of the antennas
$50 for the lot of three

2 ea Cushcraft S2403B Omni Antenna 5 dBi $20 ea
1 ea Hyperlink HG2409Y Antenna 9 dBi directional $30
1 ea WLO-2420-15 Omni Antenna 15 dBi $50

http://www.wifi-link.com/images/upload/1777_download_2057.pdf

I also have several outdoor boxes I can just kick in if you buy the routers.

All of this stuff worked at one time or another, so I am sure it is good.

Tony
W5ADC

2408. Re: FTP Server instructions

Yahoo group: DAWG-HSMM
Date: 2011-11-20 04:05:03 UTC
From: Robert
Topic: 2397 Message: 2408

Hi Rusty,

Thanks for the excellent instructions. It made installing the FTP server fairly painless. :-)

The only problem I had was that the pure-ftpd package needed the libelf package which was not on my fresh 0.4.2 install.

BTW, I downloaded the packages manually since my nodes do not have WAN access. I'm not sure if this would make any difference regarding the above issue.

73,
Bob, N7ZO.
Portland, OR

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> Attached are my instructions for installing the Pure-FTP server
> firmware onto your mesh nodes. Try these on for size and let me
> know of any points I've left fuzzy or that you didn't understand.
> I'll see about getting this up on the HSMM-MESH.org website. [Glenn?]
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>

2409. Re: FTP Server instructions

Yahoo group: DAWG-HSMM
Date: 2011-11-20 04:48:47 UTC
From: Robert
Topic: 2397 Message: 2409

Another interesting issue - Anonymous users cannot delete files. And since the server is configured to only accept anonymous logins, is there any way to delete files?

--- In DAWG-HSMM@yahoogroups.com, "Robert" <rwright@...> wrote:
>
> Hi Rusty,
>
> Thanks for the excellent instructions. It made installing the FTP server fairly painless. :-)
>
> The only problem I had was that the pure-ftpd package needed the libelf package which was not on my fresh 0.4.2 install.
>
> BTW, I downloaded the packages manually since my nodes do not have WAN access. I'm not sure if this would make any difference regarding the above issue.
>
> 73,
> Bob, N7ZO.
> Portland, OR
>
>
> --- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@> wrote:
> >
> > Attached are my instructions for installing the Pure-FTP server
> > firmware onto your mesh nodes. Try these on for size and let me
> > know of any points I've left fuzzy or that you didn't understand.
> > I'll see about getting this up on the HSMM-MESH.org website. [Glenn?]
> >
> > -Rusty-
> > --
> > _____ Rusty Haddock <=> AE5AE
> > |\/ o \ o Way out yonder in the
> > | (-< O o Van Alstyne (TX) Metropolitan Area
> > |/__V__/ Math illiteracy affects 7 out of 5 people!
> >
>

2410. Re: [DAWG-HSMM] Re: FTP Server instructions

Yahoo group: DAWG-HSMM
Date: 2011-11-20 06:44:40 UTC
From: Rusty Haddock
Topic: 2397 Message: 2410

Robert wrote:
>Hi Rusty,
>
>Thanks for the excellent instructions. It made installing the FTP
>server fairly painless. :-)

Hopefully there weren't not too many bruises or lacerations incurred. :-)

>The only problem I had was that the pure-ftpd package needed the
>libelf package which was not on my fresh 0.4.2 install.
>BTW, I downloaded the packages manually since my nodes do not have
>WAN access. I'm not sure if this would make any difference regarding
>the above issue.

There's a file on your router that contains a list of the packages
available as well as the dependencies. The scripts that do the downloads
checks the list of dependencies. So, if your node had WAN access,
downloading the pure-ftpd package would have been a little easier since
the libelf package would have been downloaded automagically.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2411. Re: [DAWG-HSMM] Re: FTP Server instructions

Yahoo group: DAWG-HSMM
Date: 2011-11-20 07:02:09 UTC
From: Rusty Haddock
Topic: 2397 Message: 2411

Robert wrote:
>Another interesting issue - Anonymous users cannot delete files.
>And since the server is configured to only accept anonymous logins,
>is there any way to delete files?

Yep, that's the way that daemon operates. I'm not seeing a command line option to change that. The program's main purpose was being used on a hostile network (the live Internet) so that's how those things roll. I was going for simplicity and a network where people act 'nice' but the software doesn't want to account for all of that. :-)

Two ways to delete the files:
1) ssh into the node and 'rm' them manually.
2) reboot the node. Since the FTP directory in under /tmp, and thusly in RAM, rebooting will effectively and efficiently delete any files there.

If you haven't spotted it yet, the website http://www.pureftpd.org probably has more information on the program than most people can digest.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2412. Re: FTP Server instructions

Yahoo group: DAWG-HSMM
Date: 2011-11-20 17:05:23 UTC
From: Robert
Topic: 2397 Message: 2412

I dropped both the -e and -E options and now it accepts both anonymous and account logins with the account logins being able to delete files. (I just used my root account for testing purposes.)
This would seem to be a good setup as everyone can contribute files but only "administrators" can delete them.

Also, thanks for the package dependency explanation.

Bob, N7Z0

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> Robert wrote:
> >Another interesting issue - Anonymous users cannot delete files.
> >And since the server is configured to only accept anonymous logins,
> >is there any way to delete files?
>
> Yep, that's the way that daemon operates. I'm not seeing a command line
> option to change that. The program's main purpose was being used on a
> hostile network (the live Internet) so that's how those things roll.
> I was going for simplicity and a network where people act 'nice' but
> the software doesn't want to account for all of that. :-)
>
> Two ways to delete the files:
> 1) ssh into the node and 'rm' them manually.
> 2) reboot the node. Since the FTP directory in under /tmp, and
> thusly in RAM, rebooting will effectively and efficiently
> delete any files there.
>
> If you haven't spotted it yet, the website http://www.pureftpd.org
> probably has more information on the program than most people can
> digest.
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>

2413. Re: [DAWG-HSMM] Digital Tuesday Field Activity

Yahoo group: DAWG-HSMM
Date: 2011-11-21 21:04:04 UTC
From: Rusty Haddock
Topic: 2406 Message: 2413

Rusty Haddock wrote:
>As discussed at the meeting last night, we're planning to get together
>for a HSMM-MESH outdoor activity at the Plano ARK's PARK in the PARK
>activity this Sunday, November 20. Time is from 1 to 4pm. Place is the

The link that Kip and I established across the Oak Point Park & Nature Preserve yesterday was only about 3300-ft, give or take, according to Google Maps. It sure looked further than that. Well, it was a fairly good connection between two RooTennas for the few minutes it existed. Then again, it should have been. :-\

Sorry we didn't have anyone else come out.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2414. More Antennas for Sale

Yahoo group: DAWG-HSMM
Date: 2011-11-27 23:50:35 UTC
From: w5adc@yahoo.com
Topic: 2414 Message: 2414

I found two of the following in the garage. These are still new in the package. The price will be $25 ea or both for $45. Shipping, if necessary will be extra.

Maxrad MFB24008DT7

Specific Freq. (MHz) 2400-2483 MHz
Gain (dBd) 5.85
Maximum Input Power (Watts) 25
Type Fiberglass Omni
Product Narrative

The These antenna feature a UV stable, vented radome that provides ultimate protections against weather elements. They can be mast or wall mounted. Electrical downtilt options on select models. Provide system planners flexibility in challenging operating environments.

Bandwidth (MHz) 100
Gain (dBi)8
H. Beamwidth Omni
VSWR 1.5:1
Polarization Vertical
Overall Size 20" long x .63" radome
Termination N Female

Thanks,

Tony
W5ADC

2415. Digital Tuesday 1, 12/6/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-12-03 00:55:40 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2415 Message: 2415

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday December 6, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
(The next reminder for this event will be sent in 3 days, 4 minutes.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2416. Digital Tuesday 1, 12/6/2011, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2011-12-06 00:55:30 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2415 Message: 2416

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday December 6, 2011
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2417. Tonight's Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2011-12-06 08:52:25 UTC
From: Rusty Haddock
Topic: 2417 Message: 2417

Hi folks!

For the year's last meeting I'll show you two little construction projects can give your little WRT54G a bit more gain. These are fairly simple reflectors that pop onto the antenna(s) of your mesh node and are made of nothing but card stock, aluminum foil, and a little glue. The patterns can be found at http://www.freeantennas.com. We'll be building both the "Windsurfer Reflector" and "Ez-10 10 dB Corner Reflector".

One more little tidbit I'll have to offer is a little bit of scripting. On WRT54G v3 and v4 there's a button behind the Cisco Systems logo on the front panel. There's also the reset button on the back of all(?) of the WRT54G's. I'll show how to have your WRT54G make use of these buttons to run scripts, change configs, what have you. All at the push of a button.

As usual, I'm always up for answering questions, especially if you're just getting started with HSMM-MESH.

Come and join us! Same Bat Time, Same Bat Channel!

And if you're not into bats...

We start around 7pm 299 Connor Rd, Lucas, TX Follow the driveway to the back gate and to the pool house.

Map: http://tinyurl.com/3pw5fvq

Talk-in will be on the Plano repeater, 147.180+ PL107.2 (which is announced).

See you there!

-Rusty-
--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2418. Digital Tuesday meeting cancellations

Yahoo group: DAWG-HSMM
Date: 2011-12-07 22:22:12 UTC
From: Rusty Haddock
Topic: 2417 Message: 2418

For the folks that haven't visited the last two meetings of Digital Tuesday, those that have attended decided to cancel the second meeting of December as well as the first meeting in January due to their respective proximity to the holidays. We'll resume our Digital Tuesday meetings on January 17th at 7pm in the usual place.

Happy Hanukka, Merry Christmas, and Happy New Year!

de AE5AE, 73
--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2419. Subjects for 2012

Yahoo group: DAWG-HSMM
Date: 2011-12-07 22:28:42 UTC
From: Rusty Haddock
Topic: 2419 Message: 2419

Some things to think about and discuss here on the list for the new year:

1) Working on making some RELIABLE DX links -- on the order of several miles. This will probably have to wait for warmer weather so... Maybe another outing around Lake Lavon for starters.

2) Finding high spots in the area to locate an HSMM-MESH node. Water towers around Plano, Lucas, Fairview, etc were discussed at the last meeting.

3) Digital data comm. support for the White Rock Marathon this time next year. Item #1 can hone our skills and be ready for such an event.

4) What subjects can we explore for DigiTuesday? Not much we can do outside when the weather's too cold (or too hot) so would you like to do some packet? WinLink? APRS? Learn about TNCs? D-Star? What? More WiFi? Give us some idears here!

5) If you have a digital radio subject you'd like to make a presentation about, just let Kip or myself know and we'll be more than glad to give you the floor.

Let's discuss!

-Rusty-
--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2420. Digital Tuesday Topic

Yahoo group: DAWG-HSMM
Date: 2011-12-07 22:52:32 UTC
From: John - N5TIM
Topic: 2420 Message: 2420

There is a lot of discussion on the APRS groups about using Bluetooth to connect computer to TNC etc. That would be a good indoor topic of the ins and outs of Bluetooth.

As for MESH at the Marathon. Kip and I discussed this at the Marathon and maybe the first try would be with the Start/Finish command units. The chat feature would be handy to start.

Happy Holidays to all.

John

2421. Re: [DAWG-HSMM] Subjects for 2012

Yahoo group: DAWG-HSMM
Date: 2011-12-07 23:06:13 UTC
From: Patrick Soileau ND5C
Topic: 2419 Message: 2421

Rusty,

Perhaps an examination of our existing Winlink system
here in Collin County might be worth some time, as well
as how we might increase its capacity.

I think that the last SET which we had last month, in
which the MRC participated, showed us that an emergency
just might overwhelm what we currently have in place.

I'm also very much in favor of trying to get some nodes
located on several water towers a few miles apart so
that we can start to have the beginnings of a wide area
MESH network available here.

73,

Pat ND5C
214-850-6439 (cell)

>_____
> From: Rusty Haddock <rusty@...>
>To: DAWG-HSMM@yahoogroups.com
>Sent: Wednesday, December 7, 2011 4:28 PM
>Subject: [DAWG-HSMM] Subjects for 2012
>
>
>
>Some things to think about and discuss here on the list for the new year:
>
>1) Working on making some RELIABLE DX links -- on the order of
>several miles. This will probably have to wait for warmer
>weather so... Maybe another outing around Lake Lavon for starters.
>
>2) Finding high spots in the area to locate an HSMM-MESH node.
>Water towers around Plano, Lucas, Fairview, etc were discussed
>at the last meeting.
>
>3) Digital data comm. support for the White Rock Marathon this
>time next year. Item #1 can hone our skills and be ready for
>such an event.
>
>4) What subjects can we explore for DigiTuesday? Not much we can do
>outside when the weather's too cold (or too hot) so would you like
>to do some packet? WinLink? APRS? Learn about TNCs? D-Star?
>What? More WiFi? Give us some idears here!

```
>
>5) If you have a digital radio subject you'd like to make a
>presentation about, just let Kip or myself know and we'll
>be more than glad to give you the floor.
>
>Let's discuss!
>
>-Rusty-
>--
>_____ Rusty Haddock <=> AE5AE
>|\/ o \ o Way out yonder in the
>| ( -< O o Van Alstyne (TX) Metropolitan Area
>|/\__V__/ Math illiteracy affects 7 out of 5 people!
>
>
>
>
```

2422. Re: [DAWG-HSMM] Subjects for 2012

Yahoo group: DAWG-HSMM
Date: 2011-12-08 03:17:51 UTC
From: Kilgore
Topic: 2419 Message: 2422

Paul Newman and I will be working on a presentation for NBEMS using FLDigi and a handheld radio. Maybe ready February.

Doug

On 12/7/2011 4:28 PM, Rusty Haddock wrote:
> 5) If you have a digital radio subject you'd like to make a
> presentation about, just let Kip or myself know and we'll
> be more than glad to give you the floor.
>
> Let's discuss!
>
> -Rusty-

2423. question about meetings - when/where?

Yahoo group: DAWG-HSMM
Date: 2011-12-18 01:00:05 UTC
From: Eric Fort
Topic: 2423 Message: 2423

It seems besides this list there may just be a meeting of this group in the Dallas area. Do I understand correctly that this happens weekly, possibly each Tuesday? where are these meeting held? Will there be a meeting held sometime between 20-30jan2012? Would like to join and meet some of the group with a friend from Lindale when down there.

Eric
AF6EP

2424. Re: [DAWG-HSMM] question about meetings - when/where?

Yahoo group: DAWG-HSMM
Date: 2011-12-18 04:12:16 UTC
From: Rusty Haddock
Topic: 2423 Message: 2424

Eric,

The Digital Tuesday meetings are a special interest group of the
Plano ARC. We meet on the 1st and 3rd Tuesdays of each month although
we are taking a hiatus for the holidays and thus there will *NOT*
be meetings this coming Tuesday, December 20st, and January 3rd.
We'll resume our meetings on January 17th.

Meetings start at 7pm and we meet at:

299 Connor Dr
Lucas, TX

Come down the driveway, through the back gate, and around back
to the pool house.

Google Map: http://tinyurl.com/3pw5fvq

Talk-in will be on the Plano repeater, 147.180+ PL107.2 (which is
announced).

Sorry, nothing 'tween January 20th and 30th.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2425. Fwd: special ham radio video webcast today

Yahoo group: DAWG-HSMM
Date: 2011-12-27 20:07:39 UTC
From: Kilgore
Topic: 2425 Message: 2425

-------- Original Message --------
Subject: special ham radio video webcast today
Date: Tue, 27 Dec 2011 11:54:40 -0600
From: t m <wa5kub.video4@...>
To: wa5kub.video4 <wa5kub.video4@...>

Special Ham radio video premier today on http://w5kub.com

W5KUB, together with ARRL, is pleased to host the debut showing of the new video ?The DIY Magic of Amateur Radio? today December 27, 2011 at 8:30 PM Eastern time (0130 UTC Dec 28)

The W5KUB streaming website with chat has been bringing ham radio events to hams in over 150 countries for over 8 years. After this special broadcast, our web site will revert back to our normal video and chat room. This website is available 365 days per year. On days when we are not live, recorded videos are playing. If you have a ham radio video you would like us to put on this site please let us know. Our next live ham radio broadcast will be the Dayton Hamvention in May 2012 and then we will broadcast the Huntsville Hamfest in August 2012. We do it so hams around the world can enjoy the greatest hobby in the world. Our broadcast lets them feel as if they were a part of the event.

W5KUB.COM <http://W5KUB.COM> is also now on Facebook. This group is created to inform amateur radio operators of upcoming broadcasts, to receive comments and make suggestions for future broadcasts, and to discuss ham radio. Everyone is welcome. Remember our video/chat room is at Http://w5kub.com its on 365 days a year.

Please join our facebook group at
https://www.facebook.com/groups/279273778772594/

For more information about Amateur Radio and ARRL?s DIY campaign, go to
http://www.WeDoThat-Radio.org

73, Tom W5KUB

2426. ARRL/TAPR 2011 DCC (Digital Communications Conference) Videos Now Available On-Line

Yahoo group: DAWG-HSMM
Date: 2011-12-31 18:55:00 UTC
From: Mark Thompson
Topic: 2426 Message: 2426

ARRL/TAPR 2011 DCC (Digital Communications Conference)

Videos

Recorded by ARVN (Amateur Radio Video News)

Now Available On-Line at:

TAPR YouTube Channel
ARRL/TAPR DCC 2011 Playlist

www.youtube.com/TAPRDigitalVideo

OR

ARVN

http://arvideonews.com/dcc2011/

VIDEOS ARE EXPENSIVE TO PRODUCE!

PLEASE CONTRIBUTE TO ARVN!!

In order to insure videos will be available on-line in the future

please donate towards their production cost at:

http://arvideonews.com/contribute/

You can learn more about TAPR and

the ARRL/TAPR DCC (Digital Communications Conference) at:

TAPR
www.tapr.org

ARRL/TAPR DCC

www.tapr.org/dcc

Join TAPR on Facebook

www.facebook.com/TAPRDigitalHam

Follow TAPR on Twitter

www.twitter.com/TAPRDigital

2427. Problem with Setup with Default USER Name and Password

Yahoo group: DAWG-HSMM
Date: 2012-01-01 05:23:29 UTC
From: Jerome Lofton
Topic: 2427 Message: 2427
Attachments: 1 described; binary payloads are missing from this source WARC

Just installed the latest version of Firmware to a WRT-54G ver 2 Router.

However, after completing the setup and saving, I cannot enter SETUP with the default User Name and Password (root / hsmm).

Is there another backdoor to re-enter the system or did I miss something?

Thanks in advance for any help !!!

Jerome
WD4CWG
Atlanta HSMM-MESH Group

2428. Re: [DAWG-HSMM] Problem with Setup with Default USER Name and Password

Yahoo group: DAWG-HSMM
Date: 2012-01-01 07:35:28 UTC
From: Mark J Culross
Topic: 2427 Message: 2428

Jerome:

Did you try the 30-30-30 reset procedure:

- with power on, hold the reset button for 30 seconds
- while continuing to hold the reset button, remove power
- leave power off for 30 seconds (you can release the reset button during this "rest" period)
- while (re)holding the reset button, apply power
- continue holding the reset button with power on for 30 seconds
- release the reset button
- attempt to connect & login as you normally would with the default username & password

Following this procedure performs a "master reset" which should take the router back to the condition that requires you to reconfigure & reset the password to something that you get to pick.

Good luck & have fun !!

Mark J Culross
KD5RXT

From: Jerome Lofton <LoftonJ@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Sat, December 31, 2011 11:23:29 PM
Subject: [DAWG-HSMM] Problem with Setup with Default USER Name and Password

Just installed the latest version of Firmware to a WRT-54G ver 2 Router.

However, after completing the setup and saving, I cannot enter SETUP with the default User Name and Password (root / hsmm).

Is there another backdoor to re-enter the system or did I miss something?

Thanks in advance for any help !!!

Jerome
WD4CWG
Atlanta HSMM-MESH Group

2429. Re: [DAWG-HSMM] Problem with Setup with Default USER Name and Password

Yahoo group: DAWG-HSMM
Date: 2012-01-01 09:33:51 UTC
From: Rusty Haddock
Topic: 2427 Message: 2429

```
Jerome Lofton wrote:
>
>Just installed the latest version of Firmware to a WRT-54G ver 2 Router.
>
>However, after completing the setup and saving, I cannot enter SETUP with
>the default User Name and Password (root / hsmm).

If you truly completed the setup and saved then the router should reboot
(if it doesn't, then hit the reboot button). One of the items on the
setup page was a password, entered twice. This has to be changed else
the router will not reboot. Upon the reboot, the password entered will
be the password for the root account.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2430. Yaesu's vision of digital

Yahoo group: DAWG-HSMM
Date: 2012-01-01 20:41:48 UTC
From: Robert Speckmann
Topic: 2430 Message: 2430

Happy New Year,

I saw this posted on another Yahoo Group. I found it to be interesting and informative (for me anyway). It does comment negatively on D-Star which is to be expected I suppose but informative all the same. It's Yaesu's vision of digital radio for the Amateur community.

Robert
AE5LC

Click on the "Owners Manual" link to view the .pdf

http://www.yaesu.com/indexVS.cfm?cmd=DisplayProducts&ProdCatID=111&encProdID=8B1\
A771611E9963B6AB769C0EC0F6B68&DivisionID=65&isArchived=0

2431. Re: Yaesu's vision of digital

Yahoo group: DAWG-HSMM
Date: 2012-01-01 20:50:57 UTC
From: ae5lc
Topic: 2430 Message: 2431

I should have included that this document does not include any reference to HSMM, just other Amature Radio Digital Standards.

--- In DAWG-HSMM@yahoogroups.com, "Robert Speckmann" <rdstx1@...> wrote:
>
> Happy New Year,
>
> I saw this posted on another Yahoo Group. I found it to be interesting and informative (for me anyway). It does comment negatively on D-Star which is to be expected I suppose but informative all the same. It's Yaesu's vision of digital radio for the Amateur community.
>
> Robert
> AE5LC
>
> Click on the "Owners Manual" link to view the .pdf
>
> http://www.yaesu.com/indexVS.cfm?cmd=DisplayProducts&ProdCatID=111&encProdID=8B1\
> A771611E9963B6AB769C0EC0F6B68&DivisionID=65&isArchived=0
>

2432. Re: [DAWG-HSMM] Yaesu's vision of digital

Yahoo group: DAWG-HSMM
Date: 2012-01-01 21:39:07 UTC
From: Eric Fort
Topic: 2430 Message: 2432

Interesting to see Yaesu (Vertex-Standard) going in this direction, but it seems like it's probably the right direction to go for Digital Voice Radios. Like it or not D-Star is an orphan apparently only used in amateur radio and only really supported well by a single company where as DMR and APCO-25 have support and market share with a greater user base and number of companies supporting them. The paper is also right on about addressing many digital myths out there Thanks for the link

AF6EP

On Sun, Jan 1, 2012 at 12:41 PM, Robert Speckmann <rdstx1@...>wrote:

> **
>
>
> **
> Happy New Year,
>
> I saw this posted on another Yahoo Group. I found it to be interesting
> and informative (for me anyway). It does comment negatively on D-Star which
> is to be expected I suppose but informative all the same. It's Yaesu's
> vision of digital radio for the Amateur community.
>
> Robert
> AE5LC
>
> Click on the "Owners Manual" link to view the .pdf
>
>
> http://www.yaesu.com/indexVS.cfm?cmd=DisplayProducts&ProdCatID=111&encProdID=8B1\
> A771611E9963B6AB769C0EC0F6B68&DivisionID=65&isArchived=0<http://www.yaesu.com/indexVS.cf
m?cmd=DisplayProducts&ProdCatID=111&encProdID=8B1A771611E9963B6AB769C0EC0F6B68&DivisionID=
65&isArchived=0>
>
>
>
>

2433. Re: [DAWG-HSMM] Yaesu's vision of digital

Yahoo group: DAWG-HSMM
Date: 2012-01-01 21:52:10 UTC
From: James Hall
Topic: 2430 Message: 2433

I posted something about this on my blog a few days ago when I stumbled across it on Yeasu's website. After that I've seen people talk about something like Yaesu is getting spun back off to it's own company from Vertex-Standard which is remaining with Motorola. I never even knew about Motorola buying the company in the first place. I guess with that news, any digital plans they may have might be up in the air.

Really needs some competition but I'm hoping that the next major standard is more open source in the spirit of Amateur Radio. It would also be very nice to see some progress in new technologies, rather than the same old rehashed thing that the main players have been pushing out for years. Wifi can do full-duplex voip and other things on the same frequencies. Would it kill anyone to scale that down to lower bandwidths and put it in a digital radio?

James

On Sun, Jan 1, 2012 at 4:39 PM, Eric Fort <eric.fort@...> wrote:

> **
>
>
> Interesting to see Yaesu (Vertex-Standard) going in this direction, but it
> seems like it's probably the right direction to go for Digital Voice
> Radios. Like it or not D-Star is an orphan apparently only used in amateur
> radio and only really supported well by a single company where as DMR and
> APCO-25 have support and market share with a greater user base and number
> of companies supporting them. The paper is also right on about addressing
> many digital myths out there Thanks for the link
>
> AF6EP
>
>
> On Sun, Jan 1, 2012 at 12:41 PM, Robert Speckmann <rdstx1@...>wrote:
>
>> **
>>
>>
>> **
>> Happy New Year,
>>
>> I saw this posted on another Yahoo Group. I found it to be interesting
>> and informative (for me anyway). It does comment negatively on D-Star which
>> is to be expected I suppose but informative all the same. It's Yaesu's
>> vision of digital radio for the Amateur community.
>>

>> Robert
>> AE5LC
>>
>> Click on the "Owners Manual" link to view the .pdf
>>
>>
>> http://www.yaesu.com/indexVS.cfm?cmd=DisplayProducts&ProdCatID=111&encProdID=8B1\
>> A771611E9963B6AB769C0EC0F6B68&DivisionID=65&isArchived=0<http://www.yaesu.com/indexVS.c
fm?cmd=DisplayProducts&ProdCatID=111&encProdID=8B1A771611E9963B6AB769C0EC0F6B68&DivisionID
=65&isArchived=0>
>>
>>
>>
>
>

2434. Cowtown Hamfest

Yahoo group: DAWG-HSMM
Date: 2012-01-02 06:09:10 UTC
From: jeff
Topic: 2434 Message: 2434

Will any one be teaching a class about HSMM-mesh at the cowtown hamfest in Fort Worth, Texas on the 20-21 of January? If not, Please sign up and teach and you will have atleast one student. I am hoping to learn enough so I can take it back to my club and teach them how to set it up and ways to use it. If not I guess I will wait until Hamcom in Plano.
Thanks,
Jeff N5XHI

2435. Re: [DAWG-HSMM] Cowtown Hamfest

Yahoo group: DAWG-HSMM
Date: 2012-01-02 06:47:58 UTC
From: David Forbes
Topic: 2434 Message: 2435

Hi Jeff

Yes, we will have two presentations on HSMM at the Cowtown Hamfset.

Kip will be presenting a Basic HSMM presentation on Saturday at 10 AM and Rusty will be presenting one on advanced HSMM at 11 AM.

More information will be updated on the web site as soon as we finalize the schedule.

Look forward to seeing you there.

73
David Forbes KC5UYR
Chairman 2012 Cowtown Hamfest
www.cowtownhamfest.com

-----Original Message-----
From: jeff <n5xhi@...>
To: DAWG-HSMM <DAWG-HSMM@yahoogroups.com>
Sent: Mon, Jan 2, 2012 12:09 am
Subject: [DAWG-HSMM] Cowtown Hamfest

Will any one be teaching a class about HSMM-mesh at the cowtown hamfest in Fort
orth, Texas on the 20-21 of January? If not, Please sign up and teach and you
ill have atleast one student. I am hoping to learn enough so I can take it back
o my club and teach them how to set it up and ways to use it. If not I guess I
ill wait until Hamcom in Plano.
hanks,
eff N5XHI

Yahoo! Groups Links
Individual Email | Traditional
http://docs.yahoo.com/info/terms/

2436. RE: [DAWG-HSMM] Cowtown Hamfest

Yahoo group: DAWG-HSMM
Date: 2012-01-02 12:47:48 UTC
From: Jim Bandy
Topic: 2434 Message: 2436

Hi Jeff

A portion of my "Photovoltaic Power for Emergency Responders" presentation at 9 AM will also include powering an HSMM-Mesh node powered with PV. I plan to have an autonomous PV powered node to demonstrate. The presentation will draw from material taught in the "Solar Fundamentals" course at Tarrant County College.

Jim Bandy K5JFB

From: David Forbes [mailto:kc5uyr@...]
Sent: Monday, January 02, 2012 12:48 AM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Cowtown Hamfest

Hi Jeff

Yes, we will have two presentations on HSMM at the Cowtown Hamfset.

Kip will be presenting a Basic HSMM presentation on Saturday at 10 AM and Rusty will be presenting one on advanced HSMM at 11 AM.

More information will be updated on the web site as soon as we finalize the schedule.

Look forward to seeing you there.

73

David Forbes KC5UYR

Chairman 2012 Cowtown Hamfest

www.cowtownhamfest.com

-----Original Message-----
From: jeff <n5xhi@...>
To: DAWG-HSMM <DAWG-HSMM@yahoogroups.com>
Sent: Mon, Jan 2, 2012 12:09 am
Subject: [DAWG-HSMM] Cowtown Hamfest

Will any one be teaching a class about HSMM-mesh at the cowtown hamfest in Fort
Worth, Texas on the 20-21 of January? If not, Please sign up and teach and you
will have atleast one student. I am hoping to learn enough so I can take it back
to my club and teach them how to set it up and ways to use it. If not I

guess I
will wait until Hamcom in Plano.
Thanks,
Jeff N5XHI

Yahoo! Groups Links

2437. Re: [DAWG-HSMM] Cowtown Hamfest

Yahoo group: DAWG-HSMM
Date: 2012-01-02 13:42:14 UTC
From: Kipton Moravec
Topic: 2434 Message: 2437

On Mon, 2012-01-02 at 06:09 +0000, jeff wrote:
> Will any one be teaching a class about HSMM-mesh at the cowtown hamfest in Fort Worth, Texas on the 20-21 of January? If not, Please sign up and teach and you will have atleast one student. I am hoping to learn enough so I can take it back to my club and teach them how to set it up and ways to use it. If not I guess I will wait until Hamcom in Plano.
> Thanks,
> Jeff N5XHI
>

We have you covered. There will be more information than you will want
to know. :)

Kip

2438. Re: Yaesu's vision of digital

Yahoo group: DAWG-HSMM
Date: 2012-01-02 17:06:05 UTC
From: kb9mwr
Topic: 2430 Message: 2438

Quote:
The most attractive benefit of digital communication is its ability to transfer large amounts of data. While it is commonly believed that narrowing the occupied bandwidth to efficiently utilize the frequency spectrum, is the primary advantage of Digital radio, we know that if the bandwidth is made narrower we lose the large data transmission advantage. In this situation, it becomes difficult to understand why anyone would want to use Digital communication for this purpose.

I found that in the Yeasu PDF, and tend to agree.

--- In DAWG-HSMM@yahoogroups.com, "ae5lc" <rdstx1@...> wrote:
>
>
> I should have included that this document does not include any reference to HSMM, just other Amature Radio Digital Standards.
>
>
> --- In DAWG-HSMM@yahoogroups.com, "Robert Speckmann" <rdstx1@> wrote:
> >
> > Happy New Year,
> >
> > I saw this posted on another Yahoo Group. I found it to be interesting and informative (for me anyway). It does comment negatively on D-Star which is to be expected I suppose but informative all the same. It's Yaesu's vision of digital radio for the Amateur community.
> >
> > Robert
> > AE5LC
> >
> > Click on the "Owners Manual" link to view the .pdf
> >
> > http://www.yaesu.com/indexVS.cfm?cmd=DisplayProducts&ProdCatID=111&encProdID=8B1\
> > A771611E9963B6AB769C0EC0F6B68&DivisionID=65&isArchived=0
> >
>

2439. Re: [DAWG-HSMM] Re: Yaesu's vision of digital

Yahoo group: DAWG-HSMM
Date: 2012-01-02 17:09:59 UTC
From: James Hall
Topic: 2430 Message: 2439

OTOH, they seem to be considering 9600 baud to be "large amounts of data"
in the same PDF. It'd be nice to see something faster though.

On Mon, Jan 2, 2012 at 12:06 PM, kb9mwr <kb9mwr@...> wrote:

> **
>
>
> Quote:
> The most attractive benefit of digital communication is its ability to
> transfer large amounts of data. While it is commonly believed that
> narrowing the occupied bandwidth to efficiently utilize the frequency
> spectrum, is the primary advantage of Digital radio, we know that if the
> bandwidth is made narrower we lose the large data transmission advantage.
> In this situation, it becomes difficult to understand why anyone would want
> to use Digital communication for this purpose.
>
> I found that in the Yeasu PDF, and tend to agree.
>
>
> --- In DAWG-HSMM@yahoogroups.com, "ae5lc" <rdstx1@...> wrote:
> >
> >
> > I should have included that this document does not include any reference
> to HSMM, just other Amature Radio Digital Standards.
> >
> >
> > --- In DAWG-HSMM@yahoogroups.com, "Robert Speckmann" <rdstx1@> wrote:
> > >
> > > Happy New Year,
> > >
> > > I saw this posted on another Yahoo Group. I found it to be interesting
> and informative (for me anyway). It does comment negatively on D-Star which
> is to be expected I suppose but informative all the same. It's Yaesu's
> vision of digital radio for the Amateur community.
> > >
> > > Robert
> > > AE5LC
> > >
> > > Click on the "Owners Manual" link to view the .pdf
> > >
> > >
> http://www.yaesu.com/indexVS.cfm?cmd=DisplayProducts&ProdCatID=111&encProdID=8B1\
> <http://www.yaesu.com/indexVS.cfm?cmd=DisplayProducts&ProdCatID=111&encProdID=8B1>>
> > A771611E9963B6AB769C0EC0F6B68&DivisionID=65&isArchived=0

> > >
> >
>
>
>

2440. Re: Problem with Setup with Default USER Name and Password

Yahoo group: DAWG-HSMM
Date: 2012-01-02 21:45:01 UTC
From: Jerome Lofton
Topic: 2427 Message: 2440
Attachments: 3 described; binary payloads are missing from this source WARC

Thanks for the replies.

The problem turned out to be that the password was inadvertently entered in uppercase.

73,
Jerome
WD4CWG

From: Jerome Lofton/Atlanta/IBM

To: DAWG-HSMM@yahoogroups.com

Date: 01/01/2012 12:23 AM

Subject: Problem with Setup with Default USER Name and Password

Just installed the latest version of Firmware to a WRT-54G ver 2 Router.

However, after completing the setup and saving, I cannot enter SETUP with the default User Name and Password (root / hsmm).

Is there another backdoor to re-enter the system or did I miss something?

Thanks in advance for any help !!!

Jerome
WD4CWG
Atlanta HSMM-MESH Group

2441. What is World IPv6 day?

Yahoo group: DAWG-HSMM
Date: 2012-01-03 16:39:11 UTC
From: Kilgore
Topic: 2441 Message: 2441

What is World IPv6 day?

From the Yahoo Mail web site:

World IPv6 day is June 8, 2011. This is a 24-hour trial period in which a number of major websites including Yahoo! will provide their content on both the IPv4 and IPv6 servers. This initiative is led by the Internet Society (ISOC). You can also find more information on their website by going to http://www.worldipv6day.org/ .

Doug KD5OUG

2442. Re: [DAWG-HSMM] What is World IPv6 day?

Yahoo group: DAWG-HSMM
Date: 2012-01-03 17:32:30 UTC
From: Jay Nugent
Topic: 2441 Message: 2442

Greetings,

On Tue, 3 Jan 2012, Kilgore wrote:

>
> What is World IPv6 day?
>
> From the Yahoo Mail web site:
>
> World IPv6 day is June 8, 2011. This is a 24-hour trial period in which a
> number of major websites including Yahoo! will provide their content on both
> the IPv4 and IPv6 servers. This initiative is led by the Internet Society
> (ISOC). You can also find more information on their website by going to
> http://www.worldipv6day.org/ .
>
> Doug KD5OUG

IPv6 World Day has come and gone. All my workstattions and servers (DNS servers included) were all "dual-stacked" and sharing some part of my /64 share of IPv6 addresses. No "NAT", ever! There is simply no need for it when every human being and every port on every router/device on the planet can have 64 bits worth of address space - and even then we only use up less than 5% of the total IPv6 address space. 128 bits is a BIG BIG number. Never again shouls anyone ever parcel out one IP to a customer, nor should anyone ever be charged extra for address space (/64 being the minimum for a residential customer).

But yes, IPv6 World Day occured without a single disruption. Surprisingly even Microsoft didn't have any problems! Sure, a few companies experienced a few bumps. But the Internet itself hummed along nicely like nothing had changed, without disruption to existing IPv4 traffic. Sites like the following all worked (and still work) perfectly:

www.v6.facebook.com
ipv6.google.com
ipv6.cnn.com
ipv6.nasa.gov
...and the list goes on...

Hurricane Electric, through their subsidiary TunnelBroker.com, offers FREE /64 address prefixes to anyone who asks. They use a SIT tunnel (IPv6 encapsulated inside IPv4) to get you from your home/office to the HE.com routers, and thus onto the worldwide IPv6 backbones all around the world. This is a nice *temporarly* measure until more ISP's roll out their own IPv6 networks.

Enjoy!
--- Jay WB8TKL
Ypsilanti, Michigan
o Linux & Networking consulting
o IPv6 Training

() ascii ribbon campaign in
/\ support of plain text e-mail

+----------+
| Jay Nugent jjn@... (734)484-5105 (734)649-0850/Cell |
| Nugent Telecommunications [www.nuge.com] |
| Internet Consulting/Linux SysAdmin/Engineering & Design/ISP Reseller |
| ISP Monitoring [www.ispmonitor.org] ISP & Modem Performance Monitoring |
| Web-Pegasus [www.webpegasus.com] Web Hosting/DNS Hosting/Shell Accts|
+----------+

12:01:01 up 120 days, 18:39, 2 users, load average: 0.17, 0.06, 0.02

2443. HSMM Makes it on youtube.

Yahoo group: DAWG-HSMM
Date: 2012-01-08 00:09:48 UTC
From: Kipton Moravec
Topic: 2443 Message: 2443

http://www.youtube.com/watch?v=vlDwVhx7miQ&list=UUzn9oVj62EFaJHjQcohwbmg&feature=plcp

Some cool HSMM plugs, and pictures of people you may recognize.

Kip

2444. Arizona Quartzfest

Yahoo group: DAWG-HSMM
Date: 2012-01-08 01:52:42 UTC
From: Kilgore
Topic: 2444 Message: 2444

http://forums.qrz.com/showthread.php?327960-QRZ-com-Founder-to-hold-QRZ-UsersFest-Jan-26th-at-Quartzfest*

/This just in!! From all indications, it looks like the Arizona Office of Emergency Services is going to bring one of their TOAD vans to Quartzfest* to demonstrate it's capabilities. The TOAD van is a satellite internet hub that serves multiple subscribers with a WIFI "HotSpot" connection at what I hear is lightning speed. The state guys (or gals) will be giving us a talk about how and when the van is deployed, area of coverage and lots of other cool information. Stay tuned for more info on this as we get it.

/What's missing? HSMM-MESH.

Doug

2445. Moving data between nodes

Yahoo group: DAWG-HSMM
Date: 2012-01-10 19:18:54 UTC
From: Jerome
Topic: 2445 Message: 2445

I have several nodes that are now setup and taking to each other (as indicated by being able to access the web interfaces of each of the nodes across the network).

I need help in how to set up PCs (both Windows and Linux) to access and exchange files and forms between the PCs connected on the mesh networks (typical field application).

I also would like to access an IP camera attached to the network (Airlink101 SkyIPCam 250W).

A basic start from scratch assumming nothing set of instructions would be appreciated.

I would like to setup a demonstration using this and share this with the Atlanta-HSMM-MESH group.

Thanks in advance for your help.

73,
Jerome
WD4CWG

2446. Re: [DAWG-HSMM] Moving data between nodes

Yahoo group: DAWG-HSMM
Date: 2012-01-10 23:43:40 UTC
From: Scott Scheirman
Topic: 2445 Message: 2446

Hi Jerome,

Congrats!

A couple of ideas (not necessarily cookbook, but may get you started).

File transfers

Option 1 - Filezilla. Essentially a "prettied up" ftp interface (server and client) for PCs. If you go this route, I suggest you first get it working on a couple of PCs on your home network (eliminate the mesh variable), and then add the mesh.

Option 2 - IRC - see hsmm-mesh.org, and search for IRC. There are great directions on how to install an IRC server _in a node_. (IRC = chat room). Once you do that, as you are 'chatting' with someone at another node, you can 'send a file' that the user stores where they want.

Option 3 - there are probably a zillion other good options.

I'll send some notes on my experiences with Options 1 and 2 to you by separate e-mail.

IP Camera

Thanks to some great instructions on hsmm-mesh.org (search for Foscam) I got a Foscam IP camera installed within an hour. Basic idea is get it working on your home network first, and then port to the mesh. I don't have first hand experience with Airlink, but my guess is the camera has a built in web server that you browse to see the photos. No I don't want to start a "my browser is better" war, but I found Firefox and Chrome to "play nicer" with the Foscam camera.

Best of luck to you and I hope this helps.

Scott
AD7XV

fyi, musings of our SW Washington mesh enthusiasts are here: CC-HSMM-Mesh@...m My .02 is that DAWG is farther along that road, but you may find some useful nuggets.

On Jan 10, 2012, at 11:18 AM, Jerome wrote:

> I have several nodes that are now setup and taking to each other (as indicated by being able to access the web interfaces of each of the nodes across the network).
>
> I need help in how to set up PCs (both Windows and Linux) to access and exchange files and forms between the PCs connected on the mesh networks (typical field application).
>
> I also would like to access an IP camera attached to the network (Airlink101 SkyIPCam 250W).

>
> A basic start from scratch assumming nothing set of instructions would be appreciated.
>
> I would like to setup a demonstration using this and share this with the
Atlanta-HSMM-MESH group.
>
> Thanks in advance for your help.
>
> 73,
> Jerome
> WD4CWG
>
>

2447. Re: Moving data between nodes

Yahoo group: DAWG-HSMM
Date: 2012-01-11 00:00:56 UTC
From: Jerome
Topic: 2445 Message: 2447

Scott,
Thanks. Please send me everything you have to WD4CWG@....
I can use the help :-)
73,
WD4CWG

--- In DAWG-HSMM@yahoogroups.com, Scott Scheirman <ad7xv.scott@...> wrote:
>
> Hi Jerome,
>
> Congrats!
>
> A couple of ideas (not necessarily cookbook, but may get you started).
>
> File transfers
>
> Option 1 - Filezilla. Essentially a "prettied up" ftp interface (server and client) for PCs. If you go this route, I suggest you first get it working on a couple of PCs on your home network (eliminate the mesh variable), and then add the mesh.
>
> Option 2 - IRC - see hsmm-mesh.org, and search for IRC. There are great directions on how to install an IRC server _in a node_. (IRC = chat room). Once you do that, as you are 'chatting' with someone at another node, you can 'send a file' that the user stores where they want.
>
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> I'll send some notes on my experiences with Options 1 and 2 to you by separate e-mail.
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> IP Camera
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>
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>
> Scott
> AD7XV
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CC-HSMM-Mesh@yahoogroups.com My .02 is that DAWG is farther along that road, but you may

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> > A basic start from scratch assumming nothing set of instructions would be appreciated.
> >
> > I would like to setup a demonstration using this and share this with the Atlanta-HSMM-MESH group.
> >
> > Thanks in advance for your help.
> >
> > 73,
> > Jerome
> > WD4CWG
> >
> >
>

2448. New WRT54GL on sale at NewEgg.com - $44.99 + Free Shipping, Promo Code: EMCYTZT1047

Yahoo group: DAWG-HSMM
Date: 2012-01-11 14:45:12 UTC
From: Jerome Lofton
Topic: 2448 Message: 2448
Attachments: 4 described; binary payloads are missing from this source WARC

New WRT54GL on sale at NewEgg.com, Promo Code: EMCYTZT1047

Linksys WRT54GL Wireless Broadband Router 802.11b/g up to 54Mbps/ Compatible with Open Source DD-WRT (not pre-load)

Linksys
Linksys WRT54GL Wireless Broadband Router
802.11b/g up to 54Mbps/ Compatible with Open
Source DD-WRT (not pre-load)
$44.99
With Promo Code: EMCYTZT1047
Free Shipping!
SHOP NOW

Jerome
WD4CWG

2449. WRT54GL on Sale

Yahoo group: DAWG-HSMM
Date: 2012-01-11 15:26:29 UTC
From: Kilgore
Topic: 2449 Message: 2449

NewEgg has a 48 hour special on the WRT54GL for $44.99.
Deals expire at
11:59pm PT on Thursday, 01/12/2012!

www.newegg.com/Product/Product.aspx?Item=N82E16833124190

Use Promo Code: EMCYTZT1047

Doug KD5OUG

2450. Re: [DAWG-HSMM] WRT54GL on Sale

Yahoo group: DAWG-HSMM
Date: 2012-01-11 16:09:54 UTC
From: denniskarol@comcast.net
Topic: 2449 Message: 2450

Looks like $54.99 w/Free 2-Day Shipping when I look.

----- Original Message -----
From: "Kilgore" <kilgore1317@...>
To: "HSMM Group" <DAWG-HSMM@yahoogroups.com>
Sent: Wednesday, January 11, 2012 10:26:29 AM
Subject: [DAWG-HSMM] WRT54GL on Sale

NewEgg has a 48 hour special on the WRT54GL for $44.99.
Deals expire at
11:59pm PT on Thursday, 01/12/2012!

www.newegg.com/Product/Product.aspx?Item=N82E16833124190

Use Promo Code: EMCYTZT1047

Doug KD5OUG

2451. Re: [DAWG-HSMM] WRT54GL on Sale

Yahoo group: DAWG-HSMM
Date: 2012-01-11 16:19:43 UTC
From: Kilgore
Topic: 2449 Message: 2451

The promotional code gets an extra discount for a specified time.

Doug

On 1/11/2012 10:09 AM, denniskarol@... wrote:
>
>
> Looks like $54.99 w/Free 2-Day Shipping when I look.
>
> ----------
> *From: *"Kilgore" <kilgore1317@...>
> *To: *"HSMM Group" <DAWG-HSMM@yahoogroups.com>
> *Sent: *Wednesday, January 11, 2012 10:26:29 AM
> *Subject: *[DAWG-HSMM] WRT54GL on Sale
>
> NewEgg has a 48 hour special on the WRT54GL for $44.99.
> *Deals expire at*
> *11:59pm PT on Thursday, 01/12/2012!*
>
> www.newegg.com/Product/Product.aspx?Item=N82E16833124190
>
> Use Promo Code: EMCYTZT1047
>
> Doug KD5OUG
>
>
>
>
>
>

2452. Digital Tuesday 2, 1/17/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-01-14 00:55:33 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2452 Message: 2452

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday January 17, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
(The next reminder for this event will be sent in 3 days, 4 minutes.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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http://www.yahoo.com

Privacy Policy:
http://privacy.yahoo.com/privacy/us

Terms of Service:
http://docs.yahoo.com/info/terms/

2453. A Wireless Road Around Data Traffic Jams

Yahoo group: DAWG-HSMM
Date: 2012-01-15 02:18:00 UTC
From: Mark Thompson
Topic: 2453 Message: 2453

A Wireless Road Around Data Traffic Jams

http://www.nytimes.com/2012/01/15/business/a-wireless-way-around-data-center-traffic-jams.html

2454. Digital Tuesday, Jan 17th

Yahoo group: DAWG-HSMM
Date: 2012-01-16 21:54:32 UTC
From: Rusty Haddock
Topic: 2454 Message: 2454

Well, Tuesday night, Jan. 17th, we start up our Digital Tuesday meetings for 2012. It'll be at the same time, same place:

7pm
299 Connor Dr
Lucas, TX
Google Map: http://tinyurl.com/3pw5fvq

Come down the driveway, through the back gate, and around back to the pool house.

Talk-in will be on the Plano repeater, 147.180+ PL107.2 (which is announced).

Topics for tonight:

I was thinking about doing a dry run of my talk scheduled for the Cowtown Hamfest this coming weekend but... well, it's not done. :-\ Instead, let's call tonight "Connectivity and Repair".

1) Bluetooth and Packet -- Communicating with a remotely placed TNC from your PC. The hardest part of all this is finding a Bluetooth-to-Serial adapter. Rusty will bring one of his gadgets along with his trusty, but old, KPC3 (non-Plus version). I'll drum up a link or two for current production products. I've been using this to connect Xastir (APRS on Linux) running on my laptop to my KPC3 upstairs in my shack. It has worked fairly well despite all the wifi signals going through the house.

2) RS-232 to Ethernet -- These are interesting little boxes that allow you to connect to a device with serial (RS/EIA-232) I/O but do it over ethernet. A good little widget to plug into a LAN port on your mesh node.

And for the repair portion...

3) Mark Culross has KINDLY agreed to bring his USB JTAG adapter and we'll try to resurrect any misbehaving or bricked WRT54G's that you might have. Rusty has a really bad WRT54G so we'll try getting that to run and, if you've got a bricked unit, we'll try to get it running again too. No guarantees though! Bring your "bricks"!!!

And if you've got some neat widget or piece of kit to share with the group, by all means, bring it along with you.

And, naturally, we'll try to answer your questions about, well, whatever we have answers for... or can make up on the spot. :-D

See you there!

```
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2455. Digital Tuesday 2, 1/17/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-01-17 00:55:32 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2452 Message: 2455

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday January 17, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2456. English Wikipedia anti-SOPA blackout

Yahoo group: DAWG-HSMM
Date: 2012-01-17 10:50:13 UTC
From: Kilgore
Topic: 2456 Message: 2456

English Language WikiPedia will be blacked out world-wide 24 hours on January 18, 2012 in opposition to up-coming legislation. If you use wiki, read this:

http://wikimediafoundation.org/wiki/English_Wikipedia_anti-SOPA_blackout

2457. Webinar - IP Surveillance

Yahoo group: DAWG-HSMM
Date: 2012-01-22 03:41:24 UTC
From: Kilgore
Topic: 2457 Message: 2457

```
Grand Stream Webinar - IP Surveillance
http://www.grandstream.com/
https://www1.gotomeeting.com/register/122850233
Wed Jan 25 1:00pm CST
```

2458. Web cam issue, need kernel advice.

Yahoo group: DAWG-HSMM
Date: 2012-01-23 01:11:27 UTC
From: Cecil
Topic: 2458 Message: 2458

So my problem is as follows.

The package for Phillips web cams is easy to load from ipkg but I am having a pain finding anyone locally that has any web cams that are that old in stock. This leaves flea-bay, not high on my list.

So that leaves us trying to get kmod-video-uvc installed. But the only back port of uvc that I can find requires hooks that are in the 2.26 kernel.

My question is then this, does HSMM-MESH require open-wrt 7.09 2.24, or is there any reason that I could not compile up 7.09 2.26 and move the web pages and olsr configuration to that version?

-Cecil

2459. TAPR and iQuadlabs Announce Agreement for Software Defined Radio Components

Yahoo group: DAWG-HSMM
Date: 2012-01-25 02:52:17 UTC
From: Mark Thompson
Topic: 2459 Message: 2459

http://www.arrl.org/news/tapr-and-iquadlabs-announce-agreement-for-software-defined-radio-components
TAPR and iQuadlabs Announce Agreement for Software Defined Radio Components01/22/2012

Tucson Amateur Packet Radio www.tapr.org (TAPR) and iQuadlabs http://iquadlabs.com/content/home have announced a sourcing agreement for openHPSDR http://openhpsdr.org/ (High Performance Software Defined Radio) development boards. These include Pennylane, a ½ W transmitter, Mercury, an HF direct-sampling receiver and Magister, an FPGA-based interface controller card.

Together these boards can be used to create a high-performance HF SDR transceiver.

Under the new agreement, TAPR will acquire inventory from iQuadLabs, creating a one-stop source for all openHPSDR boards. In addition, iQuadLabs will acquire inventory from TAPR to build pre-configured and tested complete openHPSDR systems. Zephyr Engineering, Inc will continue to manufacture the assembled boards.

Amateurs interested in exploring “next generation” Software Defined Radio will be able to easily purchase openHPSDR components directly from TAPR. And, for the first time in the history of openHPSDR, those who wish to buy a completely assembled and tested radio will have a source at iQuadLabs.

TAPR is a non-profit organization devoted to furthering the development of digital communication technology in the Amateur Radio community. TAPR and ARRL co-sponsor the annualDigital Communications Conference www.tapr.org/dcc. Last year’s conference was held in Baltimore, Maryland. The 2012 conference will be held in Atlanta, Georgia.

--our thanks to Scott Cowling, WA2DFI

2460. Digital Tuesday 1, 2/7/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-02-04 00:55:33 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2460 Message: 2460

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday February 7, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
(The next reminder for this event will be sent in 3 days, 4 minutes.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
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2461. Digital Tuesday 1, 2/7/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-02-07 00:55:34 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2460 Message: 2461

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday February 7, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
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Talk-in 147.18+ PL 107.2

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2462. Digital Tuesday, Feb. 7 meeting

Yahoo group: DAWG-HSMM
Date: 2012-02-07 21:20:22 UTC
From: Rusty Haddock
Topic: 2462 Message: 2462

Sorry for the late announcement.
Adgenda for tonight's meeting:

1) By request, Rusty will go over installation of the IRC
server software onto your WRT54G.
2) John Glavin, N5TIM, will give a presentation on software
he's found for using a PC's soundboard to replace a packet
TNC for use with WinLink and APRS.
3) Again, let's discuss what direction to take DigiTuesday.
Quite honestly, I've run out of ideas for presentations
We might also discuss going to a monthly meeting schedule
as well.

See you tonight!

Meetings start at 7pm and we meet at:

299 Connor Dr
Lucas, TX

Come down the driveway, through the back gate, and around back
to the pool house.

Google Map: http://tinyurl.com/3pw5fvq

Talk-in will be on the Plano repeater, 147.180+ PL107.2 (which is announced).

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2463. Digital Tuesday last night

Yahoo group: DAWG-HSMM
Date: 2012-02-08 15:36:55 UTC
From: John - N5TIM
Topic: 2463 Message: 2463

To the four that gave me their emails last night so I could send them an info sheet for the sound card parts. Well ... somehow I lost the sheet last night. If you gents would send me an email with your email I will send the sheet to you ASAP.

Thanks,
John Galvin - N5TIM

2464. Re: [DAWG-HSMM] Digital Tuesday last night

Yahoo group: DAWG-HSMM
Date: 2012-02-08 16:57:39 UTC
From: Jimmy Dominguez
Topic: 2463 Message: 2464

John,

I could not make it last night, but would like to get your list and perhaps
that will spur me on in the right direction !

Jimmy

On Wed, Feb 8, 2012 at 9:36 AM, John - N5TIM <n5tim@...> wrote:

> **
>
>
> To the four that gave me their emails last night so I could send them an
> info sheet for the sound card parts. Well ... somehow I lost the sheet last
> night. If you gents would send me an email with your email I will send the
> sheet to you ASAP.
>
> Thanks,
> John Galvin - N5TIM
>
>
>

2465. Re: [DAWG-HSMM] Digital Tuesday last night

Yahoo group: DAWG-HSMM
Date: 2012-02-08 18:07:04 UTC
From: Ferris Watson
Topic: 2463 Message: 2465

John,
Also not in attendance.
Appreciate the sheet.

Thanks

Ferris Watson
sirref@...
WT5B

On Wed, Feb 8, 2012 at 9:36 AM, John - N5TIM <n5tim@...> wrote:
> To the four that gave me their emails last night so I could send them an info sheet for the sound card parts. Well ... somehow I lost the sheet last night. If you gents would send me an email with your email I will send the sheet to you ASAP.
>
> Thanks,
> John Galvin - N5TIM
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

2466. Rosewill USB Wireless Adapter

Yahoo group: DAWG-HSMM
Date: 2012-02-09 15:32:43 UTC
From: Kilgore
Topic: 2466 Message: 2466

Here's an interesting form factor on a USB wireless adapter

http://www.newegg.com/Product/Product.aspx?Item=N82E16833166074

Won't be usable for HSMM-MESH.

Doug KD5OUG

2467. Re: Rosewill USB Wireless Adapter

Yahoo group: DAWG-HSMM
Date: 2012-02-14 01:58:32 UTC
From: Bob Diepenbrock
Topic: 2466 Message: 2467

I think that you *could* use this adapter, say from a small notebook or desktop.

The big secret with connecting to an HSMM-MESH network is running the OLSR daemon with the correct security key on the network interface. The key is on your HSMM-MESH router, or you could go snag a copy of the subversion repository.

I'm told that the current OLSR daemon has a slight issue that may prevent it from working correctly right now. I'm also told that a fix has been submitted and it will hopefully find its way to HSMM-MESH firmware in the future. However, I'm betting that it would not be too hard to either turn off the OLSR security stuff on your nodes or build a corrected version.

2468. Re: [DAWG-HSMM] Digital Tuesday, Feb. 7 meeting

Yahoo group: DAWG-HSMM
Date: 2012-02-14 02:32:00 UTC
From: Bob Diepenbrock
Topic: 2462 Message: 2468

3) Again, let's discuss what direction to take DigiTuesday.
Quite honestly, I've run out of ideas for presentations
>
>
>

I won't ever make a Tuesday meeting due to the son's boy scout troop, but I had a few ideas for presentations.

1. Discuss porting HSMM-MESH to other hardware. OpenWRT works on multiple platforms that would work.
2. Discuss implementation of IPv6 on OpenWRT
3. Discuss the configuration of OLSR for IPv6

One interesting hardware platform is the NetGear WNR3500L which comes with a Gigabit switch and pre-wired USB port. The console port is easy to access too, which makes recovery from bricking a bit faster. Looks to be well supported by OpenWRT and run just under $60 new.

The WNDR3800 looks *really* interesting because it also supports 802.11a links (5.3Ghz) which could be used in part 15 for local links, then the 802.11g radio could be used for long haul (part 97) links. They are a bit expensive though.

2469. Digital Tuesday 2, 2/21/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-02-18 00:55:46 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2469 Message: 2469

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday February 21, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
(The next reminder for this event will be sent in 3 days, 4 minutes.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
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2470. Digital Tuesday, February 21 meeting

Yahoo group: DAWG-HSMM
Date: 2012-02-20 07:28:15 UTC
From: Rusty Haddock
Topic: 2470 Message: 2470

On Tuesday night, Feb. 21th, we continue our Digital Tuesday meetings
for 2012. It'll be at the same time, same place:

7pm
299 Connor Dr
Lucas, TX
Google Map: http://tinyurl.com/3pw5fvq

Come down the driveway, through the back gate, and around back
to the pool house.

Talk-in will be on the Plano repeater, 147.180+ PL107.2 (which is announced).

In again deviating from our HSMM-MESH topics we will have Pete Loveall,
AE5PL, will give us a talk about:

"APRS, the Good, the Bad, and the Ugly; How to be a conscientious ham
sharing a busy frequency." We will discuss what and how to beacon
positions, how to communicate (send messages), how to make use of
various services available to the APRS operator, and how to use APRS
on RF AND the Internet. Rusty will be giving hands-on demonstrations
after the presentation.

Peter Loveall, AE5PL has been involved with APRS since the mid-1990s
and is the developer of the de facto standard APRS server on the
Internet, javAPRSSrvr. He continues to be a champion for the RF
user and providing access to worldwide resources to that RF user.

Come join us!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2471. Fwd: Intel, Once Again, Plans to Remake Radio Circuitry

Yahoo group: DAWG-HSMM
Date: 2012-02-20 23:19:18 UTC
From: Mark Thompson
Topic: 2471 Message: 2471

http://blogs.wsj.com/digits/2012/02/19/intel-once-again-plans-to-remake-radio-circuitry/?grcc=48a4980d8f25354298d1bc19c9489721Z11&mod=WSJ_hps_sections_tech

Digits
Technology News and Insights
* FEBRUARY 19, 2012, 12:06 PM
Intel, Once Again, Plans to Remake Radio Circuitry
*
By Don Clark

Intel has few peers when it comes to driving digital technology. Now the Silicon Valley giant believes it has penetrated one of the last bastions where another approach still prevails: radio.

The company is using a technical conference in San Francisco this week to disclose progress in designing new versions of key radio components that are typically built using analog technology and different materials than the silicon used to create most digital chips.
It's referring to things like power amplifiers, transmitters, modulators and other "radio frequency" components, often collectively described by the initials RF.

"We are getting close to having the complete kit of digital RF building blocks for these radios," says Justin Rattner, Intel's chief technology officer.
Why should we care? It all comes back to Moore's Law, the technology tenet Intel rides for all its worth.

The relentless pace of transistor miniaturization that Intel co-founder Gordon Moore first described in 1965 keeps bringing us more inexpensive and useful microprocessors and memory chips, not to mention devices like laptop computers and iPhones.
If RF circuitry can be produced in the same chip factories—with the same ever-declining cost per function—radios used to send data over networks like 4G or Wi-Fi can be much less expensive and ubiquitous, Rattner argues.

A logical extension of this approach is to place RF components alongside others on a chip, saving space and energy and cost in products like smartphones.
One of Intel's papers at the International Solid-State Circuits Conference http://isscc.org/ describes such a creation, a chip that has a Wi-Fi transceiver and two Intel Atom processor cores on the same piece of silicon.

Devices called "system on a chip," or SoCs, already are commonplace in cellphones. Many of them include a key communications device called a baseband

processor alongside a conventional processor that runs application software on the device.

But the RF components that actually modulate and amplify radio waves are usually kept separate, in part because their signals can interfere with operations on other parts of the chip, Rattner says.
Mitigating that
interference was a key part of the Intel effort, he adds, requiring collaboration from engineers in its research, development and manufacturing groups to come up with the right approach.

The results give Intel “great confidence” that it will be able to come up with true single-chip products with RF components for phones, tablet computers and other devices where size and power consumption are paramount, says Rattner, while conceding that such developments are at least several years away.

There’s reason to inject at least a note of skepticism here. A company that has bet its future on billion-dollar factories and the most advanced production processes may be expected to think that they are the most efficient way for producing just about anything.

But many makers of analog chips have effectively, and profitably, done just the opposite—reducing costs steadily by using older manufacturing recipes, RF-friendly materials like silicon germanium and factories that were paid off decades ago.

Intel’s credibility about timing is also subject to question. Rattner’s predecessor as Intel’s top technologist—Patrick Gelsinger, who is now a senior executive at EMC—ten years ago made similar statements to kick off an effort he called Radio Free Intel.

“Those back at the ranch were scratching their heads,” recalls Rattner, who says Gelsinger was prescient in setting a technical goal but underestimated the time and effort required. “We spent the better part of the past decade figuring it all out.”

Besides radio components, Intel is using the event known as ISSCC to present technical papers in a variety of other areas—particularly chips designed to sharply reduce power consumption by operating at close to the “threshold voltage” of transistors, the amount of current needed to turn them on.

Another focus is on a new way for designing components known as floating-point units, which are involved in handling many mathematics operations.
The approach uses “variable” precision—in some cases reducing the number of bits to express numbers in scientific calculations—which can actually lead to more accurate results and save energy and computing time, Rattner says.

2472. Digital Tuesday 2, 2/21/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-02-21 00:55:30 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2469 Message: 2472

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday February 21, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
Location: 299 Connor Ln, Lucas, TX

Notes:
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2473. PARK Balloon SIG

Yahoo group: DAWG-HSMM
Date: 2012-02-22 14:35:50 UTC
From: Kipton Moravec
Topic: 2473 Message: 2473

The Plano Amateur Radio Klub, is forming a PARK Balloon SIG (Special Interest Group) to build payloads and launch in Amateur Radio High Altitude Balloons to near space. (60,000 to 235,000 feet).

There are lots of opportunities to participate, and a lot of different jobs. There are building payloads, being on the launch team, being on the recovery team, tracking the balloon, predicting the path, interfacing with the FAA, etc.

Our SIG is open to all Amateurs Radio operators (you need not be a member of PARK to participate).

We are also opening it up to non-hams. (We will help you get your license, so you can participate more fully).

ARBONET has offered us a payload spot on their April 21 Balloon launch in Hillsboro, if we can be ready in time.

Our First meeting will be on Saturday, March 3, at 9:00 a.m. at the

Plano Super Bowl
2521 Avenue K
Plano, TX 75074

There is a meeting room upstairs.

We have also started a PARKBalloon yahoo group.
PARKBalloon-subscribe@yahoogroups.com to subscribe to email information.
or http://groups.yahoo.com/group/PARKBalloon

Put it on your calenders! And get the word out.

Kip
AE5IB

2474. ham homestead for sale near McKinney TX

Yahoo group: DAWG-HSMM
Date: 2012-03-01 18:13:14 UTC
From: N0RQ-lists
Topic: 2474 Message: 2474

Do you know anyone that might be looking for a "ham homestead" in north-central Collin County (north of Dallas)? If so, please forward this to them.

My 12 acre plot with an 11-year-old home and barn is about ready to go on the market, and so I'm mentioning it here in advance as for sale by owner, before we list it with our agent.

The property is in Melissa, TX, just 8 easy miles to the heart of McKinney (intersection of 75&380).

Included is 12.3 acres, 2715 sq.ft. home, large barn, and 60' Trylon tower with antennas, multiple runs of LMR-600, and plenty of space to put up whatever else you'd like!

More details at www.MelissaAcres.com <http://www.melissaacres.com/> .
Please email me with questions (mycallsign <at> att.net), or use the Contact form on the web site.

Dave Dunbar, N0RQ
www.MelissaAcres.com

2475. Digital Tuesday 1, 3/6/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-03-03 00:55:36 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2475 Message: 2475

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday March 6, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
(The next reminder for this event will be sent in 3 days, 4 minutes.)
Location: 299 Connor Ln, Lucas TX

Notes:
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2476. Digital Tuesday March 6th, 7pm -- NBEMS

Yahoo group: DAWG-HSMM
Date: 2012-03-05 19:00:08 UTC
From: Rusty Haddock
Topic: 2476 Message: 2476

On Tuesday night, March 6th, we continue our Digital Tuesday meetings
for 2012. It'll be at the same time, same place:

7pm
299 Connor Dr
Lucas, TX
Google Map: http://tinyurl.com/3pw5fvq

Come down the driveway, through the back gate, and around back
to the pool house.

Talk-in will be on the Plano repeater, 147.180+ PL107.2

The presentation for the night will be:

"Digital Messaging Using NBEMS"

There will be an explanation and demonstration of the Narrow Band
Emergency Message System using VHF radio. The system uses the
free software soundcard programs Fldigi, Flwrap, Flmsg, and Flarq.
This suite of programs is available for Windows, Linux, and OS X
operating systems. Bring a USB memory stick to load the software
to your computer.

Presenters:
Doug Kilgore KD5OUG
Paul Newman KA4TYW
Brady Pamplin W5LH

See y'all there!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2477. Re: [DAWG-HSMM] Digital Tuesday March 6th, 7pm -- NBEMS

Yahoo group: DAWG-HSMM
Date: 2012-03-05 19:27:47 UTC
From: Floyd Rodgers
Topic: 2476 Message: 2477

Could you put this collection of software on a server somewhere. I simply cannot get to meetings on Tuesday night since I'm sitting in class then.

On 3/5/2012 1:00 PM, Rusty Haddock wrote:
>
> On Tuesday night, March 6th, we continue our Digital Tuesday meetings
> for 2012. It'll be at the same time, same place:
>
> 7pm
> 299 Connor Dr
> Lucas, TX
> Google Map: http://tinyurl.com/3pw5fvq
>
> Come down the driveway, through the back gate, and around back
> to the pool house.
>
> Talk-in will be on the Plano repeater, 147.180+ PL107.2
>
> The presentation for the night will be:
>
> "Digital Messaging Using NBEMS"
>
> There will be an explanation and demonstration of the Narrow Band
> Emergency Message System using VHF radio. The system uses the
> free software soundcard programs Fldigi, Flwrap, Flmsg, and Flarq.
> This suite of programs is available for Windows, Linux, and OS X
> operating systems. Bring a USB memory stick to load the software
> to your computer.
>
> Presenters:
> Doug Kilgore KD5OUG
> Paul Newman KA4TYW
> Brady Pamplin W5LH
>
> See y'all there!
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>
>

2478. Re: [DAWG-HSMM] Digital Tuesday March 6th, 7pm -- NBEMS

Yahoo group: DAWG-HSMM
Date: 2012-03-05 20:20:59 UTC
From: Rusty Haddock
Topic: 2476 Message: 2478

Floyd Rodgers wrote:
>Could you put this collection of software on a server somewhere. I
>simply cannot get to meetings on Tuesday night since I'm sitting in
>class then.

I think if you'll just Google the program names you can easily find
the versions for the operating system you use. It's all open software.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2479. Re: [DAWG-HSMM] Digital Tuesday March 6th, 7pm -- NBEMS

Yahoo group: DAWG-HSMM
Date: 2012-03-05 20:32:51 UTC
From: Todd Caldwell
Topic: 2476 Message: 2479

Here's a link to a .pdf that covers all but the last package Randy mentions.
http://w1hkj.com/we1u/Installing_fldigi-Handouts.pdf

There's a download link in the file:
http://w1hkj.com/download.html

Todd - K5SLR

Rusty Haddock wrote:
> Floyd Rodgers wrote:
> >Could you put this collection of software on a server somewhere. I
> >simply cannot get to meetings on Tuesday night since I'm sitting in
> >class then.
>
> I think if you'll just Google the program names you can easily find
> the versions for the operating system you use. It's all open software.
>
> -Rusty-
>

2480. Digital Tuesday 1, 3/6/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-03-06 00:55:29 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2475 Message: 2480

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday March 6, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2481. Job opening - IT support technician

Yahoo group: DAWG-HSMM
Date: 2012-03-09 16:26:05 UTC
From: w5inf
Topic: 2481 Message: 2481

Hello all,

My company has an immediate opening for an IT customer support technician. The primary function will be desktop support at the help desk, however, dispatches to the customer site are common (mainly the Dallas area). Windows 7 and XP are the primary OS platforms. The full job description can be found at: http://www.cognoscape.com/join-team-2

If you are interested please forward your resume to CognoscapeHR@...

73s
John - W5INF

2482. Fwd: Re: NBEMS Demo to Richardson Wireless Klub

Yahoo group: DAWG-HSMM
Date: 2012-03-10 22:12:41 UTC
From: Kilgore
Topic: 2482 Message: 2482

Guy Story KC5GOI in Denton is holding a NBEMS training sessioon on the Denton repeater at 14:00 hrs Sunday. Try to check in.

Doug Kilgore KD5OUG

-------- Original Message --------
Subject: Re: NBEMS Demo to Richardson Wireless Klub
Date: Thu, 8 Mar 2012 12:40:20 -0600
From: Guy Story KC5GOI <kc5goi@...>
To: Kilgore <kilgore1317@...>

Doug, I will check to see if I can make the 147.12 machine this afternoon and get back with you. If I an hit it ok, I will be sure to check in. I will let WB5NZV know as well.

I will be holding a training session on the 11th at 1400 on the 146.92 (PL 110.9) repeater. It is open to everyone. We will be using MT63-2000 also.

73

Guy

On Thu, Mar 8, 2012 at 1:43 AM, Kilgore <kilgore1317@... <mailto:kilgore1317@...>> wrote:

Paul Newman KA5TYW, Brady Pamplin W5LH, and myself Doug Kilgore KD5OUG will be giving a demonstration of NBEMS to the Richardson Wireless Klub on Monday, Mar. 12. We expect to be sending messages over the 147.12 repeater sometime between approximately 7:45 - 8:30pm. We will be using MT63-2000 for the demo.

I was wondering if you or some of your folks might be able to hit that repeater and would send us a message or two after we come on the air?

We have a test feature on this 147.12 (No PL) repeater that will let you hear your own signal. While transmitting, key in 411 on the DTMF keypad and then release. If the repeater can hear you OK, it will respond with a morse code "OK". After the transmitter drops, whoever makes the next transmission will be recorded and played back. You can test that way.

I'm not able to reliably hit the 146.92 repeater from my house.

Doug Kilgore KD5OUG
Ph 214-770-2394 <tel:214-770-2394> Cell
kd5oug@... <mailto:kd5oug@...>

--
73

Guy Story KC5GOI
kc5goi@... <mailto:kc5goi@...>

2483. How to SSH?

Yahoo group: DAWG-HSMM
Date: 2012-03-13 17:52:12 UTC
From: Damon
Topic: 2483 Message: 2483

Good afternoon all,

I am working on getting IRC installed onto one of my nodes for our group here in Muskegon, MI. I have gotten the IRC software uploaded to the node, and the ports forwarded and advertised. I am now having trouble figuring out how to go about SSH into the router to use VI and configure the IRC file.

I am on a Windows 7 machine. I have read about using "PuTTy" but have not been able to get a connection. A few questions.... which 'hostname' or address is used? do you need to be directlty connected to the router or can you SSH through the MESH network?

If anyone can maybe post a link to, or write up a step-by-step guide on how to get SSH connected to a mesh node I would apreciate it!!

Damon - KC7NEC

2484. Re: [DAWG-HSMM] How to SSH?

Yahoo group: DAWG-HSMM
Date: 2012-03-13 21:08:10 UTC
From: Scott Scheirman
Topic: 2483 Message: 2484

Hi Damon,

I replied to you directly. I don't claim to be "the expert", but let me know if it helps.

Scott
AD7XV

From: Damon <damontalbot76@gmail.com>
Reply-To: <DAWG-HSMM@yahoogroups.com>
Date: Tue, 13 Mar 2012 17:52:12 -0000
To: <DAWG-HSMM@yahoogroups.com>
Subject: [DAWG-HSMM] How to SSH?

Good afternoon all,

I am working on getting IRC installed onto one of my nodes for our group here in Muskegon, MI. I have gotten the IRC software uploaded to the node, and the ports forwarded and advertised. I am now having trouble figuring out how to go about SSH into the router to use VI and configure the IRC file.

I am on a Windows 7 machine. I have read about using "PuTTy" but have not been able to get a connection. A few questions.... which 'hostname' or address is used? do you need to be directlty connected to the router or can you SSH through the MESH network?

If anyone can maybe post a link to, or write up a step-by-step guide on how to get SSH connected to a mesh node I would apreciate it!!

Damon - KC7NEC

2485. Re: [DAWG-HSMM] How to SSH?

Yahoo group: DAWG-HSMM
Date: 2012-03-13 20:17:52 UTC
From: Rusty Haddock
Topic: 2483 Message: 2485

Damon wrote:
>Good afternoon all,

>I am working on getting IRC installed onto one of my nodes for our
>group here in Muskegon, MI. I have gotten the IRC software uploaded
>to the node, and the ports forwarded and advertised. I am now having
>trouble figuring out how to go about SSH into the router to use VI
>and configure the IRC file.

Using 'SSH' to get into your node is just like using a terminal program, like HyperTerm, to telnet into another computer. Another terminal program that I like is call 'TeraTerm' (http://ttssh2.sourceforge.jp). This and putty will give you access to the Linux shell or command line on the mesh node. You have to keep in mind that the SSH server on the mesh node uses a different port than telnet and the default ssh. Its transmissions are encrypted for purposes of obscuring the meaning of the data transmitted. Because of this it would probably be best if you physically connect to one of the node's LAN ports and thus avoid the hassles of Part 97.

>I am on a Windows 7 machine. I have read about using "PuTTy" but
>have not been able to get a connection. A few questions.... which
>'hostname' or address is used? do you need to be directlty connected
>to the router or can you SSH through the MESH network?

PuTTy should do the trick but you need to remember that the mesh nodes are not using the standard port for SSH. Instead of port 22 they're accepting connections on port 2222. Coming into through a LAN port, just use 172.27.0.1 or the hostname 'localnode'.

Remember that you will login as 'root' with the password that you entered on the Mesh Node setup screen.

>If anyone can maybe post a link to, or write up a step-by-step guide
>on how to get SSH connected to a mesh node I would apreciate it!!

Does this help? Sorry, but I haven't been helping David Spratt, AE5VS, with his configuration webpage and I need to get back onto this. Being able to configure the IRC server with the webpage will preclude SSH and 'vi' and all that other good stuff.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2486. Re: How to SSH?

Yahoo group: DAWG-HSMM
Date: 2012-03-14 01:08:13 UTC
From: Damon
Topic: 2483 Message: 2486

Thank you!!

I got the server up and running. Now to see how well everyone gets connected at our next meeting.

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> Damon wrote:
> >Good afternoon all,
>
> >I am working on getting IRC installed onto one of my nodes for our
> >group here in Muskegon, MI. I have gotten the IRC software uploaded
> >to the node, and the ports forwarded and advertised. I am now having
> >trouble figuring out how to go about SSH into the router to use VI
> >and configure the IRC file.
>
> Using 'SSH' to get into your node is just like using a terminal program,
> like HyperTerm, to telnet into another computer. Another terminal program
> that I like is call 'TeraTerm' (http://ttssh2.sourceforge.jp). This and
> putty will give you access to the Linux shell or command line on the mesh
> node. You have to keep in mind that the SSH server on the mesh node uses
> a different port than telnet and the default ssh. Its transmissions are
> encrypted for purposes of obscuring the meaning of the data transmitted.
> Because of this it would probably be best if you physically connect to
> one of the node's LAN ports and thus avoid the hassles of Part 97.
>
> >I am on a Windows 7 machine. I have read about using "PuTTy" but
> >have not been able to get a connection. A few questions.... which
> >'hostname' or address is used? do you need to be directlty connected
> >to the router or can you SSH through the MESH network?
>
> PuTTy should do the trick but you need to remember that the mesh nodes
> are not using the standard port for SSH. Instead of port 22 they're
> accepting connections on port 2222. Coming into through a LAN port, just
> use 172.27.0.1 or the hostname 'localnode'.
>
> Remember that you will login as 'root' with the password that you entered
> on the Mesh Node setup screen.
>
> >If anyone can maybe post a link to, or write up a step-by-step guide
> >on how to get SSH connected to a mesh node I would apreciate it!!
>
> Does this help? Sorry, but I haven't been helping David Spratt,
> AE5VS, with his configuration webpage and I need to get back onto this.
> Being able to configure the IRC server with the webpage will preclude

```
> SSH and 'vi' and all that other good stuff.
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | ( -< O o Van Alstyne (TX) Metropolitan Area
> |/\__V__/ Math illiteracy affects 7 out of 5 people!
>
```

2487. Digital Tuesday 2, 3/20/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-03-16 23:58:38 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2487 Message: 2487

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday March 20, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
(The next reminder for this event will be sent in 3 days, 1 minute.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2488. Digital Tuesday 2, 3/20/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-03-19 23:58:30 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2487 Message: 2488

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday March 20, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
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2489. NBEMS - Narrow Band Emergency Messaging Software

Yahoo group: DAWG-HSMM
Date: 2012-03-20 21:56:28 UTC
From: Brady Pamplin
Topic: 2489 Message: 2489

I have set up a web site to host information about North Texas NBEMS activities. It includes the recent presentations given at Digital Tuesday, RWK and Richardson RACES training net and more.

We will be having an NBEMS practice net Thursday evening. Details are on the following link. Everyone is welcome to join!

http://pamplin.com/nbems/

73s,

Brady - W5LH

2490. Digital Tuesday 1, 4/3/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-03-30 23:58:25 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2490 Message: 2490

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday April 3, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
(The next reminder for this event will be sent in 3 days, 1 minute.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
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2491. Digital Tuesday 1, 4/3/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-04-02 23:58:08 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2490 Message: 2491

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday April 3, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2492. Digital Tuesday Tonight

Yahoo group: DAWG-HSMM
Date: 2012-04-03 12:33:02 UTC
From: Kipton Moravec
Topic: 2492 Message: 2492

Digital Tuesday is here already.

I will be talking about using an open access WiFi to provide the MESH Internet access. I use DD-WRT as the access point. And will show how to configure it.

Kip

2493. Texas Tornadoes....

Yahoo group: DAWG-HSMM
Date: 2012-04-05 20:32:13 UTC
From: Damon
Topic: 2493 Message: 2493

First off hopefully everyone from this group is ok.

My question is did the DAWG group (or others) end up using the MESH for anything after the tornadoes yesterday? Any real world stories coming out of a crazy Texas weather day? I know that I have read that there are full time MESH links at several Hospitals, and other sites.... how did they fare? were they activated and used by any agencies?

2494. Re: [DAWG-HSMM] Texas Tornadoes....

Yahoo group: DAWG-HSMM
Date: 2012-04-05 21:40:40 UTC
From: Kipton Moravec
Topic: 2493 Message: 2494

On Thu, 2012-04-05 at 20:32 +0000, Damon wrote:
> First off hopefully everyone from this group is ok.
>
> My question is did the DAWG group (or others) end up using the MESH for anything after the tornadoes yesterday? Any real world stories coming out of a crazy Texas weather day? I know that I have read that there are full time MESH links at several Hospitals, and other sites.... how did they fare? were they activated and used by any agencies?
>

The HSMM-MESH nodes attached to Hospitals are in the Austin area.

There are not enough in the DFW area yet to form a net. They are too few
and far between.

Kip

2495. Laptop Remote Control fir PowerPoint Presentation

Yahoo group: DAWG-HSMM
Date: 2012-04-09 02:20:36 UTC
From: Kilgore
Topic: 2495 Message: 2495

Does anyone have a remote control for a laptop computer to advance a PowerPoint presentation? I would like to borrow it for the weekend of April 15.

Doug Kilgore KD5OUG
Ph 972-231-8539

2496. Re: [DAWG-HSMM] Laptop Remote Control fir PowerPoint Presentation

Yahoo group: DAWG-HSMM
Date: 2012-04-09 02:49:59 UTC
From: Kevin Whipp
Topic: 2495 Message: 2496

Doug,

I can't help you with anymore than a suggestion. I simply hold wireless mouse in my hand and right-click when I want the frame to advance.

Kevin Whipp - W3KDW
On Apr 8, 2012 10:20 PM, "Kilgore" <kilgore1317@sbcglobal.net> wrote:

> **
>
>
> Does anyone have a remote control for a laptop computer to advance a
> PowerPoint presentation? I would like to borrow it for the weekend of
> April 15.
>
> Doug Kilgore KD5OUG
> Ph 972-231-8539
>
>

2497. Digital Tuesday 2, 4/17/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-04-13 23:56:58 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2497 Message: 2497

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday April 17, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
(The next reminder for this event will be sent in 3 days, 3 minutes.)
Location: 299 Connor Ln, Lucas, TX

Notes:
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2498. Digital Tuesday 2, 4/17/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-04-16 23:57:31 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2497 Message: 2498

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday April 17, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2499. Tonight's topic -- Rootennas

Yahoo group: DAWG-HSMM
Date: 2012-04-17 09:45:48 UTC
From: Rusty Haddock
Topic: 2497 Message: 2499

Before the meeting, gather at the driveway of our meeting place at 6pm if you'd like to participate in checking out the mesh node that Kip has placed on a local ham's tower overlooking Lake Lavon. This is to mostly check out if the node is still functioning, rebooting if necessary, in preparation for our Lake Lavon mesh building event. (When is this, Kip?)

The topic for tonight's meeting will be the installation of a WRT54G into a 15-inch Rootenna. Not real difficult but just to show how easy it is to add a gain antenna to your mesh node.

Discussion of our outing to Lake Lavon, when to meet, what to bring, where to setup around the lake, and all sorts of other little details. :-)

See you tonight!

```
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2500. Re: [DAWG-HSMM] Tonight's topic -- Rootennas

Yahoo group: DAWG-HSMM
Date: 2012-04-17 20:54:03 UTC
From: Rusty Haddock
Topic: 2497 Message: 2500

Rusty Haddock wrote:
>Before the meeting, gather at the driveway of our meeting place at 6pm
>if you'd like to participate in checking out the mesh node that Kip has
>placed on a local ham's tower overlooking Lake Lavon. This is to mostly

Just to make it clear, if you do *NOT* want to participate with the little
field trip, the regular meeting will start at the usual 7pm. OK?

>check out if the node is still functioning, rebooting if necessary, in
>preparation for our Lake Lavon mesh building event. (When is this, Kip?)
>
>The topic for tonight's meeting will be the installation of a WRT54G
>into a 15-inch Rootenna. Not real difficult but just to show how
>easy it is to add a gain antenna to your mesh node.
>
>Discussion of our outing to Lake Lavon, when to meet, what to bring,
>where to setup around the lake, and all sorts of other little details. :-)
>
>See you tonight!
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2501. Re: [DAWG-HSMM] Tonight's topic -- Rootennas

Yahoo group: DAWG-HSMM
Date: 2012-04-17 20:57:31 UTC
From: Todd Caldwell
Topic: 2497 Message: 2501

Might have been interested in both, but this is not enough notice.

Todd

Rusty Haddock wrote:
> Rusty Haddock wrote:
> >Before the meeting, gather at the driveway of our meeting place at 6pm
> >if you'd like to participate in checking out the mesh node that Kip has
> >placed on a local ham's tower overlooking Lake Lavon. This is to mostly
>
> Just to make it clear, if you do *NOT* want to participate with the little
> field trip, the regular meeting will start at the usual 7pm. OK?
>
> >check out if the node is still functioning, rebooting if necessary, in
> >preparation for our Lake Lavon mesh building event. (When is this, Kip?)
> >
> >The topic for tonight's meeting will be the installation of a WRT54G
> >into a 15-inch Rootenna. Not real difficult but just to show how
> >easy it is to add a gain antenna to your mesh node.
> >
> >Discussion of our outing to Lake Lavon, when to meet, what to bring,
> >where to setup around the lake, and all sorts of other little details. :-)
> >
> >See you tonight!
>

2502. Lake Lavon outing...

Yahoo group: DAWG-HSMM
Date: 2012-04-18 22:25:12 UTC
From: Rusty Haddock
Topic: 2502 Message: 2502

Our outing to Lake Lavon has been scheduled for Saturday April 28th. We'll meet on the driveway of our usual meeting place (299 Connor Rd, Lucas, TX) at 9am (yeah, that's in the MORNING :-).

I currently have a Google map of Lake Lavon with various places to setup marked on it. I've made the map public but you (I hope) can not edit it. If you have some notes or additional points of interest you'd like to see added, email them to me and I'll add them. The map is here:

http://g.co/maps/tvs2j

This outing will need some advanced preparation!!!

Please use the map IN ADVANCE of our outing to pick a place or two that you'd like to work from. Heck, scout it out beforehand as well if you like. The idea of this exercise is to make a mesh, not necessarily connect to the Internet if it's available. A 2m radio would be a good piece of gear to bring along for voice coordination, even if it's so we can call you to see if you're still alive, having MESH issues, etc. Being able to connect to an IRC server if we get meshing would be helpful.

Stock antennas on a WRT54G will not be useful at these distances so please be prepared with a gain antenna of some kind.

Afterwards, if you're interested, the McKinney club is running a special event station (K5F) in Frognot (Blue Ridge) to commemorate International Save the Frog Day. Yeah, it's crazy but it's fun! Maybe you just hafta go to Frognot and see for yourself...

Any questions? Please let me know if you'd like to precipitate! :-)

-Rusty-
--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2503. Fwd: [DAWG-HSMM] Digest Number 844

Yahoo group: DAWG-HSMM
Date: 2012-04-19 03:33:09 UTC
From: Brian
Topic: 2503 Message: 2503

This is my problem too...I'd love to come out and play, but everything gets
posted to the list on short notice. Is there a link to upcoming activities?

Brian/WA3ITE
On Apr 18, 2012 8:22 AM, <DAWG-HSMM@yahoogroups.com> wrote:

> **
> Dallas Area Working Group - HSMM
> <http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJlZm81azN1BF9TAzk3MzU5NzE1BGdycElkAz
EyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDaGRyBHNsawNocGgEc3RpbWUDMTMzNDc1NTM1NA-->
> Messages In This Digest (2 Messages)
> 1a. Re: Tonight's topic -- Rootennas <#136c59e6f9cb703a_1a> From: Rusty
> Haddock 1b. Re: Tonight's topic -- Rootennas <#136c59e6f9cb703a_1b>From: Todd Caldwell
> View All Topics<http://groups.yahoo.com/group/DAWG-HSMM/messages;_ylc=X3oDMTJnZzNscnI0BF
9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZG1zZwRzbGsDYXRwYwRzdGlt
ZQMxMzM0NzU1MzU0?xm=1&m=p&tidx=1>| Create
> New Topic<http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJnamVsNmVlBF9TAzk3MzU5
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> Messages
> 1a. Re: Tonight's topic -- Rootennas
> <http://groups.yahoo.com/group/DAWG-HSMM/message/2500;_ylc=X3oDMTJyNGFqajZtBF9TAzk3MzU5N
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0aW1lAzEzMzQ3NTUzNTQ-> Posted
> by: "Rusty Haddock" rusty@...
> <rusty@...?Subject=+Re%3A%20Tonight%27s%20topic%20--%20Rootennas> kd4wlz
> <http://profiles.yahoo.com/kd4wlz> Tue Apr 17, 2012 1:54 pm (PDT)
>
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> Reply to sender
> <rusty@...?Subject=Re%3A%20Tonight%27s%20topic%20--%20Rootennas>| Reply
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> 1b. Re: Tonight's topic -- Rootennas
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0aW1lAzEzMzQ3NTUzNTQ-> Posted
> by: "Todd Caldwell" tmCaldwell@...
> <tmCaldwell@...?Subject=+Re%3A%20Tonight%27s%20topic%20--%20Rootennas> tmc4242
> <http://profiles.yahoo.com/tmc4242> Tue Apr 17, 2012 1:58 pm (PDT)
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> via web post
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> <http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJmNnI3N285BF9TAzk3MzU5NzE1BGdyc
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Visit
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> Visit Your Group
> <http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJlNzZxOGg2BF9TAzk3MzU5NzE1BGdycElkAz
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Yahoo!
> Groups Terms of Use <http://docs.yahoo.com/info/terms/> | Unsubscribe
> <DAWG-HSMM-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>

2504. Re: Fwd: [DAWG-HSMM] Digest Number 844

Yahoo group: DAWG-HSMM
Date: 2012-04-19 12:09:12 UTC
From: Kipton Moravec
Topic: 2503 Message: 2504

We discuss at the meetings.

The next event is April 28, 9:00. We test long distance antennas by
going around Lake Lavon. Rusty has posted this.

Kip

On Wed, 2012-04-18 at 22:33 -0500, Brian wrote:
> This is my problem too...I'd love to come out and play, but everything gets
> posted to the list on short notice. Is there a link to upcoming activities?
>
> Brian/WA3ITE
> On Apr 18, 2012 8:22 AM, <DAWG-HSMM@yahoogroups.com> wrote:
>
> > **
> > Dallas Area Working Group - HSMM
> > <http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJlZm81azN1BF9TAzk3MzU5NzE1BGdycElk
AzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDaGRyBHNsawNocGgEc3RpbWUDMTMzNDc1NTM1NA-->
> > Messages In This Digest (2 Messages)
> > 1a. Re: Tonight's topic -- Rootennas <#136c59e6f9cb703a_1a> From: Rusty
> > Haddock 1b. Re: Tonight's topic -- Rootennas <#136c59e6f9cb703a_1b>From: Todd Caldwell
> > View All Topics<http://groups.yahoo.com/group/DAWG-HSMM/messages;_ylc=X3oDMTJnZzNscnI0
BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZG1zZwRzbGsDYXRwYwRzdG
ltZQMxMzM0NzU1MzU0?xm=1&m=p&tidx=1>| Create
> > New Topic<http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJnamVsNmVlBF9TAzk3Mz
U5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZG1zZwRzbGsDbnRwYwRzdGltZQMxMzM0
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5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMyNTAwBHNlYwNkbXNnBHNsawN2bXNnB
HN0aW1lAzEzMzQ3NTUzNTQ-> Posted
> > by: "Rusty Haddock" rusty@...
> > <rusty@...?Subject=+Re%3A%20Tonight%27s%20topic%20--%20Rootennas> kd4wlz
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> > <tmCaldwell@...?Subject=+Re%3A%20Tonight%27s%20topic%20--%20Rootennas> tmc4242
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> > Messages in this topic
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> > Visit Your Group
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> > Search Ads
> >
> > Get new customers.<http://global.ard.yahoo.com/SIG=15lb9jmi8/M=493064.14543973.1436549

8.8674578/D=groups/S=1705644089:NC/Y=YAHOO/EXP=1334762554/L=8f6787e8-8959-11e1-8db9-1b7b87
5540da/B=IKV5AEoGYq4-/J=1334755354870579/K=Z5YAlW7lYbMbnXGYyKpWtw/A=3848641/R=0/SIG=1312g8
5fq/*http://searchmarketing.yahoo.com/arp/srchv2.php?o=US2003&cmp=Yahoo&ctv=Groups2&s=Y&s2
=&s3=&b=50>
> >
> > List your web site
> >
> > in Yahoo! Search.
> > Yahoo! Finance
> >
> > It's Now Personal<http://global.ard.yahoo.com/SIG=15luutur0/M=493064.14543953.14365457
.8674578/D=groups/S=1705644089:NC/Y=YAHOO/EXP=1334762554/L=8f6787e8-8959-11e1-8db9-1b7b875
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kk/*http://us.rd.yahoo.com/evt=50284/*http://finance.yahoo.com/personal-finance>
> >
> > Guides, news,
> >
> > advice & more.
> > Need to Reply?
> >
> > Click one of the "Reply" links to respond to a specific message in the
> > Daily Digest.
> > Create New Topic
> > <http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJmNnI3N285BF9TAzk3MzU5NzE1BGd
ycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNudHBjBHN0aW1lAzEzMzQ3NTUzNTQ->
| Visit
> > Your Group on the Web<http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJkMGY3NWo4BF9
TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNocARzdGltZQMxM
zM0NzU1MzU0>
> > Messages<http://groups.yahoo.com/group/DAWG-HSMM/messages;_ylc=X3oDMTJmZjB1NWdqBF9TAzk
3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNtc2dzBHN0aW1lAzEzM
zQ3NTUzNTQ->|
> > Files<http://groups.yahoo.com/group/DAWG-HSMM/files;_ylc=X3oDMTJnN244azZiBF9TAzk3MzU5N
zE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNmaWxlcwRzdGltZQMxMzM0NzU
1MzU0>|
> > Photos<http://groups.yahoo.com/group/DAWG-HSMM/photos;_ylc=X3oDMTJmb2V1N251BF9TAzk3MzU
5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNwaG90BHN0aW1lAzEzMzQ3N
TUzNTQ->|
> > Links<http://groups.yahoo.com/group/DAWG-HSMM/links;_ylc=X3oDMTJnZnFycWFiBF9TAzk3MzU5N
zE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNsaW5rcwRzdGltZQMxMzM0NzU
1MzU0>|
> > Database<http://groups.yahoo.com/group/DAWG-HSMM/database;_ylc=X3oDMTJkcjRvM3VpBF9TAzk
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zU1MzU0>|
> > Polls<http://groups.yahoo.com/group/DAWG-HSMM/polls;_ylc=X3oDMTJnOGRkZHAwBF9TAzk3MzU5N
zE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNwb2xscwRzdGltZQMxMzM0NzU
1MzU0>|
> > Members<http://groups.yahoo.com/group/DAWG-HSMM/members;_ylc=X3oDMTJma3Zna2xwBF9TAzk3M
zU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNtYnJzBHN0aW1lAzEzMzQ
3NTUzNTQ->
> > [image: Yahoo! Groups]<http://groups.yahoo.com/;_ylc=X3oDMTJlN2R2dTM0BF9TAzk3MzU5NzE1B

GdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTMzNDc1NTM1NA-
->
> > Change settings via the Web<http://groups.yahoo.com/group/DAWG-HSMM/join;_ylc=X3oDMTJn
ZTNpbDBmBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNzdG
5ncwRzdGltZQMxMzM0NzU1MzU0>(Yahoo! ID required)
> > Change settings via email: Switch delivery to
Individual<DAWG-HSMM-normal@yahoogroups.com?subject=Email+Delivery:+Indiviual+Email>|
Switch
> > format to Traditional<DAWG-HSMM-traditional@yahoogroups.com?subject=Change+Delivery+Fo
rmat:+Traditional>
> > Visit Your Group
> > <http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJlNzZxOGg2BF9TAzk3MzU5NzE1BGdycElk
AzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNocGYEc3RpbWUDMTMzNDc1NTM1NA-->|
Yahoo!
> > Groups Terms of Use <http://docs.yahoo.com/info/terms/> | Unsubscribe
> > <DAWG-HSMM-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> >
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>
> Yahoo! Groups Links
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>
>
>

2505. Freifunk mesh

Yahoo group: DAWG-HSMM
Date: 2012-04-20 03:00:37 UTC
From: wb8i
Topic: 2505 Message: 2505

I have a couple of WRT54G-TM routers that have Freifunk mesh loaded on them. Anyone had any issues loading HSMM-MESH over them ?? Just thought i would ask, before I bricked one of them.

Tnx

2506. Re: [DAWG-HSMM] Freifunk mesh

Yahoo group: DAWG-HSMM
Date: 2012-04-20 05:10:44 UTC
From: Rusty Haddock
Topic: 2505 Message: 2506

wb8i wrote:
>I have a couple of WRT54G-TM routers that have Freifunk mesh loaded
>on them. Anyone had any issues loading HSMM-MESH over them ??
>Just thought i would ask, before I bricked one of them.

Nope. Shouldn't have any problems at all. The -TM versions had
extra RAM and FLASH memories.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2507. Re: [DAWG-HSMM] Freifunk mesh

Yahoo group: DAWG-HSMM
Date: 2012-04-21 02:57:20 UTC
From: Gerald Pelnar
Topic: 2505 Message: 2507

Let me know how it turns out, I have a few of them setting around.

WD0FYF Gerald

>I have a couple of WRT54G-TM routers that have Freifunk mesh loaded on
>them. Anyone had any issues loading HSMM-MESH over them ?? Just thought i
>would ask, before I bricked one of them.
>
> Tnx

2508. MESH Map

Yahoo group: DAWG-HSMM
Date: 2012-04-25 15:26:48 UTC
From: ehorton62
Topic: 2508 Message: 2508

Is there a MESH map of the Nodes in the Plano area? I live in the low area by Bod Woodruff Park and was looking for a node to connect my WRT54g to.
Thanks,
Ed
KF5LKA

2509. Re: [DAWG-HSMM] MESH Map

Yahoo group: DAWG-HSMM
Date: 2012-04-25 15:54:41 UTC
From: Jimmy Dominguez
Topic: 2508 Message: 2509

I'm so far from an experienced user, but your router should find any MESH unit to connect to automatically.

Jimmy
ke5peq

On Wed, Apr 25, 2012 at 10:26 AM, ehorton62 <ehorton62@...> wrote:

> **
>
>
> Is there a MESH map of the Nodes in the Plano area? I live in the low area
> by Bod Woodruff Park and was looking for a node to connect my WRT54g to.
> Thanks,
> Ed
> KF5LKA
>
>
>

2510. Re: MESH Map

Yahoo group: DAWG-HSMM
Date: 2012-04-25 18:07:01 UTC
From: ehorton62
Topic: 2508 Message: 2510

Yes. I currently don't see any nodes. I don't know if there is any close by and what kind of range can I expect. Maybe I need a directional gain antenna, but not to sure what direction I would point it. I just thought there might be some map like Austin has showing the node locations. Thanks

--- In DAWG-HSMM@yahoogroups.com, Jimmy Dominguez <ke5peq@...> wrote:
>
> I'm so far from an experienced user, but your router should find any MESH
> unit to connect to automatically.
>
> Jimmy
> ke5peq
>
> On Wed, Apr 25, 2012 at 10:26 AM, ehorton62 <ehorton62@...> wrote:
>
> > **
> >
> >
> > Is there a MESH map of the Nodes in the Plano area? I live in the low area
> > by Bod Woodruff Park and was looking for a node to connect my WRT54g to.
> > Thanks,
> > Ed
> > KF5LKA
> >
> >
> >
>

2511. Re: [DAWG-HSMM] Lake Lavon outing... This Saturday!

Yahoo group: DAWG-HSMM
Date: 2012-04-27 02:10:05 UTC
From: Kipton Moravec
Topic: 2502 Message: 2511

Reminder the outing to Lake Lavon is this Saturday.

Kip

On Wed, 2012-04-18 at 17:25 -0500, Rusty Haddock wrote:
> Our outing to Lake Lavon has been scheduled for Saturday April 28th.
> We'll meet on the driveway of our usual meeting place (299 Connor Rd,
> Lucas, TX) at 9am (yeah, that's in the MORNING :-).
>
> I currently have a Google map of Lake Lavon with various places to setup
> marked on it. I've made the map public but you (I hope) can not edit it.
> If you have some notes or additional points of interest you'd like to
> see added, email them to me and I'll add them. The map is here:
>
> http://g.co/maps/tvs2j
>
> This outing will need some advanced preparation!!!
>
> Please use the map IN ADVANCE of our outing to pick a place or two
> that you'd like to work from. Heck, scout it out beforehand as well if
> you like. The idea of this exercise is to make a mesh, not necessarily
> connect to the Internet if it's available. A 2m radio would be a good
> piece of gear to bring along for voice coordination, even if it's so
> we can call you to see if you're still alive, having MESH issues, etc.
> Being able to connect to an IRC server if we get meshing would be helpful.
>
> Stock antennas on a WRT54G will not be useful at these distances so
> please be prepared with a gain antenna of some kind.
>
> Afterwards, if you're interested, the McKinney club is running a special
> event station (K5F) in Frognot (Blue Ridge) to commemorate International
> Save the Frog Day. Yeah, it's crazy but it's fun! Maybe you just hafta
> go to Frognot and see for yourself...
>
> Any questions? Please let me know if you'd like to precipitate! :-)
>
> -Rusty-

2512. Re: [DAWG-HSMM] Lake Lavon outing... This Saturday!

Yahoo group: DAWG-HSMM
Date: 2012-04-27 02:51:35 UTC
From: Rusty Haddock
Topic: 2502 Message: 2512

Kipton Moravec wrote:
>Reminder the outing to Lake Lavon is this Saturday.

Indeed and I've received only one email about one person's points of interest. The map is at http://g.co/maps/tvs2j and a little preparation will go a long way towards having a good time!

I have obtained permission to use Larry Essary's (K5XG) 2m repeater. Output is on 146.900- with a PL of 118.8-Hz.

Looks like the showers/thunderstorms forecast for this weekend have moved into next week.

See you at our meeting place at 9am.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2513. Digital Tuesday 1, 5/1/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-04-28 06:09:54 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2513 Message: 2513

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday May 1, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
(The next reminder for this event will be sent in 3 days, 2 minutes.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2514. Tuesday night's meeting topics

Yahoo group: DAWG-HSMM
Date: 2012-04-30 21:04:23 UTC
From: Rusty Haddock
Topic: 2514 Message: 2514

Topics for tomorrow night meeting:

1) Lake Lavon outing -- sadly, it wasn't good.
2) Can your laptop, with WiFi, be used as a simple mesh node?
Doing this with Linux running on a laptop is trivial but
what about Windows? Can it be done? Why would you want to
do this? Come see!

--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2515. Re: [DAWG-HSMM] Tuesday night's meeting topics

Yahoo group: DAWG-HSMM
Date: 2012-04-30 21:17:27 UTC
From: Bill Vodall
Topic: 2514 Message: 2515

> 2) Can your laptop, with WiFi, be used as a simple mesh node?
> Doing this with Linux running on a laptop is trivial

Excellent... Hopefully some slides or meeting notes will make it to the web. I asked (somewhere) about doing this a few months ago and "trivial" was not in the responses I received. :-)

> what about Windows? Can it be done? Why would you want to
> do this? Come see!

VM's? This will be interesting...

73
Bill - WA7NWP

2516. Re: [DAWG-HSMM] Tuesday night's meeting topics

Yahoo group: DAWG-HSMM
Date: 2012-04-30 22:49:29 UTC
From: Rusty Haddock
Topic: 2514 Message: 2516

Bill Vodall wrote:
>> 2) Can your laptop, with WiFi, be used as a simple mesh node?
>> Doing this with Linux running on a laptop is trivial
>
>Excellent... Hopefully some slides or meeting notes will make it to
>the web.

Maybe... if slides are made or someone keeps notes.

>I asked (somewhere) about doing this a few months ago and
>"trivial" was not in the responses I received. :-)

Here, I'm only talking about literally being a routing node, much like
my Zipit Z2, but not about doing everything a HSMM-MESH node does such
as advertizing services, acting as a router, providing DMZ, NAT, port
forwarding, and the 1-click shopping of HSMM-MESH web interface or not.
Naturally, this would not apply to Linux running on non-little endian
CPU's.

>> what about Windows? Can it be done? Why would you want to
>> do this? Come see!
>
>VM's? This will be interesting...

Who said anything about VM's? That just trivializes the solution.

Still, I want to see what Kip comes up with for Windows!

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2517. Digital Tuesday 1, 5/1/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-04-30 23:57:59 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2513 Message: 2517

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday May 1, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2518. Re: [DAWG-HSMM] Tuesday night's meeting topics

Yahoo group: DAWG-HSMM
Date: 2012-05-01 00:18:17 UTC
From: Kipton Moravec
Topic: 2514 Message: 2518

On Mon, 2012-04-30 at 17:49 -0500, Rusty Haddock wrote:
> Bill Vodall wrote:
> >> 2) Can your laptop, with WiFi, be used as a simple mesh node?
> >> Doing this with Linux running on a laptop is trivial
> >
> >Excellent... Hopefully some slides or meeting notes will make it to
> >the web.
>
> Maybe... if slides are made or someone keeps notes.
>
> >I asked (somewhere) about doing this a few months ago and
> >"trivial" was not in the responses I received. :-)
>
> Here, I'm only talking about literally being a routing node, much like
> my Zipit Z2, but not about doing everything a HSMM-MESH node does such
> as advertizing services, acting as a router, providing DMZ, NAT, port
> forwarding, and the 1-click shopping of HSMM-MESH web interface or not.
> Naturally, this would not apply to Linux running on non-little endian
> CPU's.
>
> >> what about Windows? Can it be done? Why would you want to
> >> do this? Come see!
> >
> >VM's? This will be interesting...
>
> Who said anything about VM's? That just trivializes the solution.
>
> Still, I want to see what Kip comes up with for Windows!
>

Kip has not clue how to do this with Windows. :)

Kip

2519. Re: [DAWG-HSMM] Tuesday night's meeting topics

Yahoo group: DAWG-HSMM
Date: 2012-05-01 09:38:48 UTC
From: Rusty Haddock
Topic: 2514 Message: 2519

```
Kipton Moravec wrote:
>On Mon, 2012-04-30 at 17:49 -0500, Rusty Haddock wrote:
>>,,,,
>> Still, I want to see what Kip comes up with for Windows!
>>
>
>Kip has not clue how to do this with Windows. :)
>
>Kip

My bad. So much for Windows this time. Sorry folks.
Maybe someone that's Windows knowledgable can take what
I present tonight and look into what it would take for
a Windows version for us.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2520. Re: [DAWG-HSMM] MESH Map

Yahoo group: DAWG-HSMM
Date: 2012-05-08 11:42:52 UTC
From: Bob Diepenbrock
Topic: 2508 Message: 2520

I don't know about any up to date map, but I'm pretty sure that if you are near Bob Woodruff park (down in the hole) there will be little in view for you. I know of a few nodes which are active in Richardson near the hospital on Renner and the tollway but they are generally on high gain antennas not pointed in your direction or they are using the stock antennas.

In order to get much more than about 300' out of these things you will need some gain over the stock antennas. I've heard tales of getting 1/4 mile, but this is going to be the exception rather than the rule. Gain can be had with antennas and/or amps but all the gain in the world will not help if the RF must go though structures, trees and ground. At 2 Gig Hz it is pretty much going to be line of sight, and sometimes not even that.

If you start playing with high gain antennas, please be careful to review RF safety rules. Gain antennas and RF amps can quickly get you into field strengths that require caution at 2 GHz when handling antennas. It's unlikely to be a problem, but a little caution is warranted because we are very close to the ideal Microwave cooking frequency (2.4 or so GHz), and eye dammage is possible with even modest amounts of gain. See the FCC's website on RF Safety if you plan to start using much gain with these things

I've heard that there are a few repeater sites that are starting to put up HSMM nodes, but I've not had any luck getting connected to them. I'm guessing that most repeater sites are going to be cluttered from an RF perspective and unless one provides quite a bit of gain and a more omni diretional antenna setup, these will be hard to hit from any kind of distance even if you can see it just fine.

Keep trying and I'll try to look for your nodes nextime I'm in the park if I can get portable with some of mine.

-= Bob =-
On Wed, Apr 25, 2012 at 10:26 AM, ehorton62 <ehorton62@...> wrote:

> **
>
>
> Is there a MESH map of the Nodes in the Plano area? I live in the low area
> by Bod Woodruff Park and was looking for a node to connect my WRT54g to.
> Thanks,
> Ed
> KF5LKA
>
>
>

2521. Digital Tuesday 2, 5/15/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-05-11 23:56:29 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2521 Message: 2521

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday May 15, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
(The next reminder for this event will be sent in 3 days, 3 minutes.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2522. Fw: TAPR PSR Digital Journal Spring 2012 Edition Now Available

Yahoo group: DAWG-HSMM
Date: 2012-05-12 20:01:23 UTC
From: Mark Thompson
Topic: 2522 Message: 2522

TAPR PSR Digital Journal

Spring 2012 Edition Now Available

http://www.tapr.org/psr/psr118.pdf

2523. Adgenda for Digital Tuesday, 5/15

Yahoo group: DAWG-HSMM
Date: 2012-05-14 20:28:36 UTC
From: Rusty Haddock
Topic: 2523 Message: 2523

Hi again!

With the lack of anything better to talk about for Tuesday night, I thought I'd run through the talk I gave at Cowtown Hamfest, probably with a few additions and/or changes; maybe you'll give me some more ideas. :-) This will be the talk I plan on giving at HamCom in place of the advanced configuration presentation I gave last year. It's entitled something like "Applications and Accessories for the Mesh". At Cowtown it turned into a really good session with a lot of back and forth between myself and the audience and probably won't be much different with this group. If you missed this talk and can't wait for (or won't be attending) HamCom then join us Tuesday night at Digital Tuesday.

Same Bat-Time: 7:00pm

Same Bat-Location: 299 Connor Ln, Lucas, TX
Come down the driveway, through the back gate,
and around back to the pool house.

Bat-Map: http://tinyurl.com/3pw5fvq

Bat-Repeater: Talk-in will be on the Plano repeater, 147.180+ PL107.2

See you there!

-Rusty-
--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2524. Digital Tuesday 2, 5/15/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-05-14 23:58:48 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2521 Message: 2524

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday May 15, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the third Tuesday.)
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
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2525. Re: [DAWG-HSMM] Adgenda for Digital Tuesday, 5/15

Yahoo group: DAWG-HSMM
Date: 2012-05-15 01:54:36 UTC
From: Kipton Moravec
Topic: 2523 Message: 2525

On Mon, 2012-05-14 at 15:28 -0500, Rusty Haddock wrote:
> Hi again!
>
> With the lack of anything better to talk about for Tuesday night, I
> thought I'd run through the talk I gave at Cowtown Hamfest, probably with
> a few additions and/or changes; maybe you'll give me some more ideas. :-)
> This will be the talk I plan on giving at HamCom in place of the advanced
> configuration presentation I gave last year. It's entitled something
> like "Applications and Accessories for the Mesh". At Cowtown it turned
> into a really good session with a lot of back and forth between myself
> and the audience and probably won't be much different with this group.
> If you missed this talk and can't wait for (or won't be attending)
> HamCom then join us Tuesday night at Digital Tuesday.
>
> Same Bat-Time: 7:00pm
>
> Same Bat-Location: 299 Connor Ln, Lucas, TX
> Come down the driveway, through the back gate,
> and around back to the pool house.
>
> Bat-Map: http://tinyurl.com/3pw5fvq
>
> Bat-Repeater: Talk-in will be on the Plano repeater, 147.180+ PL107.2
>
> See you there!
>
> -Rusty-

Sounds good. I will be looking forward to it.

Kip

2526. Fwd: [NBEMSham] We all knew this was coming....

Yahoo group: DAWG-HSMM
Date: 2012-05-17 13:29:15 UTC
From: Kilgore
Topic: 2526 Message: 2526

For your info.....

-------- Original Message --------
Subject: [NBEMSham] We all knew this was coming....
Date: Thu, 17 May 2012 05:23:02 -0000
From: kc9sgv <kc9sgv@...>
Reply-To: NBEMSham@yahoogroups.com
To: NBEMSham@yahoogroups.com

Hi All,

$250
$10/month
Global coverage.
Pole to pole.

http://shop.delorme.com/OA_HTML/DELibeCCtpSctDspRte.jsp?section=10820&minisite=10020
<http://shop.delorme.com/OA_HTML/DELibeCCtpSctDspRte.jsp?section=10820&minisite=10020>

KC9SGV

.

2527. Re: [DAWG-HSMM] Fwd: [NBEMSham] We all knew this was coming....

Yahoo group: DAWG-HSMM
Date: 2012-05-21 20:22:25 UTC
From: Bob Diepenbrock
Topic: 2526 Message: 2527

Hmmmm...

$10/month for text messages from anywhere? Nice....

I can understand folks might find this useful, but it is really just texts
and it seems from reading the descriptions it can take awhile to actually
get the message out and a confirm back.

Call me when we can get DSL speeds for $10/month anywhere in the world.. :)

On Thu, May 17, 2012 at 8:29 AM, Kilgore <kilgore1317@...> wrote:

> **
>
>
> For your info.....
>
> -------- Original Message -------- Subject: [NBEMSham] We all knew this
> was coming.... Date: Thu, 17 May 2012 05:23:02 -0000 From: kc9sgv
> <kc9sgv@gmail.com> <kc9sgv@...> Reply-To: NBEMSham@yahoogroups.com To:
> NBEMSham@yahoogroups.com
>
>
>
> Hi All,
>
> $250
> $10/month
> Global coverage.
> Pole to pole.
>
>
> http://shop.delorme.com/OA_HTML/DELibeCCtpSctDspRte.jsp?section=10820&minisite=10020
>
> KC9SGV
>
> .
>
>
>

2528. Ham Homestead for sale, McKinney (Melissa) Texas

Yahoo group: DAWG-HSMM
Date: 2012-05-28 16:15:45 UTC
From: N0RQ-lists
Topic: 2528 Message: 2528

Back on the market -- please share with anyone that might be interested in a ham homestead just north of McKinney.

My 12 acre plot with an 11-year-old home and barn is on the market, and so I'm mentioning it here in advance as for sale by owner, before we list it with our agent.

The property is in Melissa, TX, just 8 easy miles to the heart of McKinney (intersection of 75&380).

Included is 12.3 acres, 2715 sq.ft. home, large barn, and 60' Trylon tower with antennas, multiple runs of LMR-600, and plenty of space to put up whatever else you'd like!

More details at <http://www.melissaacres.com/> www.MelissaAcres.com .
Please email me with questions (mycallsign <at> att.net), or use the Contact form on the web site.

ALSO, some ham stuff for sale: www.powerlinenoise.com/for-sale/

Dave Dunbar, N0RQ
<http://www.melissaacres.com/> www.MelissaAcres.com
(Apologies if this is off-topic for the list, but this should be the last time it is mentioned.)

2529. Digital Tuesday 1, 6/5/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-06-01 23:58:24 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2529 Message: 2529

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday June 5, 2012
7:00 pm - 8:30 pm
(This event repeats every month on the first Tuesday.)
(The next reminder for this event will be sent in 3 days, 4 minutes.)
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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http://privacy.yahoo.com/privacy/us

Terms of Service:
http://docs.yahoo.com/info/terms/

2530. Digital Tuesday, June 5th

Yahoo group: DAWG-HSMM
Date: 2012-06-05 06:39:02 UTC
From: Rusty Haddock
Topic: 2530 Message: 2530

Up for discussion will be:

o Kip's trip to Dayton.

o Helping with HamCom.

o How to get your mesh's internet connection going again.
(yeah, it's broke!)

o A new HSMM-MESH firmware patch that's in beta-test.

o Building "lollipops" (for getting a WRT54G above everyone's head).

Along with the usual question and answer session, I'm sure, so come join
us for Digital Tuesday!

Same Bat-Time: 7:00pm

Same Bat-Location: 299 Connor Ln, Lucas, TX
Come down the driveway, through the back gate, and around to the
pool house.

Bat-Map: http://tinyurl.com/3pw5fvq

Bat-Repeater: Talk-in will be on the Plano repeater, 147.180+ PL107.2

See you there!

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2531. Re: [DAWG-HSMM] Digital Tuesday, June 5th

Yahoo group: DAWG-HSMM
Date: 2012-06-06 00:13:19 UTC
From: AD7XV
Topic: 2530 Message: 2531

I'd sure like to hear more about the "how to get Internet on your mesh" topic, though I live in WA

By the way, I presented a HSMM 101 class at Seapac 2012. Standing room only. Big hit

73
Scott
AD7XV

Sent from my iPhone

On Jun 4, 2012, at 11:39 PM, Rusty Haddock <rusty@...> wrote:

> Up for discussion will be:
>
> o Kip's trip to Dayton.
>
> o Helping with HamCom.
>
> o How to get your mesh's internet connection going again.
> (yeah, it's broke!)
>
> o A new HSMM-MESH firmware patch that's in beta-test.
>
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>
> Along with the usual question and answer session, I'm sure, so come join
> us for Digital Tuesday!
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>
> See you there!
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>

2532. Exterrnal antenna on WRT54

Yahoo group: DAWG-HSMM
Date: 2012-06-06 12:49:22 UTC
From: Larry
Topic: 2532 Message: 2532

I have a question regarding the antenna setup on the WRT54.
When using an outside antenna do you program the "RX ant-right" and the "TX ant-right" and connect the external antenna to the right jack; or do you leave the antennas on Diversity?
If you leave the antenna on Diversity what do you use on the left antenna jack?

Can somesone explain the proper setup?

Thanks,
Larry, W5NCD

2533. Re: [DAWG-HSMM] Exterrnal antenna on WRT54

Yahoo group: DAWG-HSMM
Date: 2012-06-07 04:28:50 UTC
From: Kipton Moravec
Topic: 2532 Message: 2533

On Wed, 2012-06-06 at 12:49 +0000, Larry wrote:
> I have a question regarding the antenna setup on the WRT54.
> When using an outside antenna do you program the "RX ant-right" and the "TX ant-right" and connect the external antenna to the right jack; or do you leave the antennas on Diversity? If you leave the antenna on Diversity what do you use on the left antenna jack?
>
> Can someone explain the proper setup?
>
> Thanks,
> Larry, W5NCD

Sure. First you have to determine which is right antenna and which is left antenna. Lower the power and try one then the other. The one with the antenna will have a better SNR. Linksys was not consistent between versions as to which side was right and which side was left.

If you only have one antenna, turn that one on and do not do diversity. I see a 3 db gain with one antenna over dual antennas.

Usually I leave the factory antenna on the unused side in case you accidentally go back to diversity or switch sides. It will at least have somewhat of a load.

Kip

2534. Re: [DAWG-HSMM] Exterrnal antenna on WRT54

Yahoo group: DAWG-HSMM
Date: 2012-06-07 10:09:59 UTC
From: Tommy Davis
Topic: 2532 Message: 2534

Both sides are TX and RX. You TX and RX both at
the same time unless you use Diversity setting.
If you use Diversity mode you need to test side
you "think is right or left". Some versions right
and left is viewing from the front and some are from the back. Go figure...

At 07:49 AM 6/6/2012, you wrote:
>
>
>I have a question regarding the antenna setup on the WRT54.
>When using an outside antenna do you program the
>"RX ant-right" and the "TX ant-right" and
>connect the external antenna to the right jack;
>or do you leave the antennas on Diversity? If
>you leave the antenna on Diversity what do you use on the left antenna jack?
>
>Can somesone explain the proper setup?
>
>Thanks,
>Larry, W5NCD
>
>

Tommy Davis

W5TCD

tommyd39@...

Remember...you can't tell the difference at 10,000 feet.

2535. Call for Technical Papers at 2012 ARRL/TAPR DCC (Digital Communications Conference), Atlanta, GA

Yahoo group: DAWG-HSMM
Date: 2012-06-08 05:03:10 UTC
From: Mark Thompson
Topic: 2535 Message: 2535

http://www.arrl.org/news/papers-requested-for-arrl-tapr-digital-communications-conference
Papers Requested for ARRL/TAPR Digital Communications Conference

06/01/2012
Amateurs are invited to submit technical papers for presentation at the 31st Annual ARRL and TAPR Digital Communications Conference to be held September 21-23, 2012 at the Sheraton Gateway Airport Hotel in Atlanta, Georgia.
These papers will also be published in the Conference Proceedings (you do not need to attend the conference to have your paper included in the Proceedings).
The submission deadline is July 31. Please send papers to: Maty Weinberg, ARRL, 225 Main St, Newington, CT 06111. Or you can make your submission via e-mail to: maty@....

For more information about the conference, see the Tucson Amateur Packet Radio www.tapr.org/dcc, or call 972- 671-8277.

2536. Re: [Austin_HSMM_Development] firmware version 0.4.3 released

Yahoo group: DAWG-HSMM
Date: 2012-06-11 02:16:02 UTC
From: Rusty Haddock
Topic: 2536 Message: 2536

```
algorithmaton wrote:
>This is a bug-fix release which includes:
>
>- fixes for port forwarding from the wan
>- replaced the list of ping hosts for the olsr dynamic default gateway
>
>If the patch is installed it will restart olsr so you will see a temporary
>loss of mesh access, but this will quickly resolve itself. If you have a
>gateway node you should install the patch there first to re-establish
>internet access to the rest of your mesh.

And if your gateway has lost its Internet connectivity you can download
the patch from http://hsmm-mesh.org/software-download.html. The full
0.4.3 firmware load can be downloaded there also.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2537. Re: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version 0.4.3 released

Yahoo group: DAWG-HSMM
Date: 2012-06-11 02:56:32 UTC
From: Robert Scott
Topic: 2536 Message: 2537

Thanks Rusty, that solved the problem I was having.

Robert

From: Rusty Haddock <rusty@...>
To: Austin_HSMM_Development@yahoogroups.com
Cc: dawg-hsmm@yahoogroups.com
Sent: Sunday, June 10, 2012 9:16 PM
Subject: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version 0.4.3 released

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>
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2538. Re: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version 0.4.3 released

Yahoo group: DAWG-HSMM
Date: 2012-06-11 03:38:00 UTC
From: Scott Scheirman
Topic: 2536 Message: 2538

Is it just me? On http://hsmm-mesh.org/software-download.html all I see are
0.42 releases, including hsmm-mesh-0.42-brcm-trx.

I don't see any 0.43 versions, nor a 'patch'.

Thanks,
Scott
AD7XV

From: Robert Scott <kc5prg@yahoo.com>
Reply-To: <DAWG-HSMM@yahoogroups.com>
Date: Sunday, June 10, 2012 7:56 PM
To: "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@yahoogroups.com>
Subject: Re: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version
0.4.3 released

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2539. Re: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version 0.4.3 released

Yahoo group: DAWG-HSMM
Date: 2012-06-11 03:41:45 UTC
From: Glenn Currie
Topic: 2536 Message: 2539

All I see on the page are the latest 0.4.3 binaries. Others are loading updates and getting it to work. Perhaps you browser is buffering old copies of the web page.

-Glenn
KD5mfw

_____
From: Scott Scheirman <ad7xv.scott@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Sunday, June 10, 2012 10:38 PM
Subject: Re: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version 0.4.3 released

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Date: Sunday, June 10, 2012 7:56 PM
To: "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@...m>
Subject: Re: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version 0.4.3 released

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Sent: Sunday, June 10, 2012 9:16 PM
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2540. Re: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version 0.4.3 released

Yahoo group: DAWG-HSMM
Date: 2012-06-11 03:50:01 UTC
From: Scott Scheirman
Topic: 2536 Message: 2540

Thanks Glen. I thought I had flushed the cache, etc, but a reboot fixed it.
Now all I see are the 0.43 versions as you noted

Question: to use the .tgz patches, just d/l and point the mesh node at it
(as if you were ref lashing it for the first time?).

73
Scott
AD7XV

From: Glenn Currie <kd5mfw_7@...>
Reply-To: <DAWG-HSMM@yahoogroups.com>
Date: Sunday, June 10, 2012 8:41 PM
To: "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@yahoogroups.com>
Subject: Re: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version
0.4.3 released

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-Glenn
KD5mfw

From: Scott Scheirman <ad7xv.scott@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Sunday, June 10, 2012 10:38 PM
Subject: Re: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version
0.4.3 released

Is it just me? On http://hsmm-mesh.org/software-download.html all I see are
0.42 releases, including hsmm-mesh-0.42-brcm-trx.

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Thanks,
Scott
AD7XV

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Reply-To: <DAWG-HSMM@yahoogroups.com>
Date: Sunday, June 10, 2012 7:56 PM
To: "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@yahoogroups.com>
Subject: Re: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version
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Thanks Rusty, that solved the problem I was having.

Robert

From: Rusty Haddock <rusty@...>
To: Austin_HSMM_Development@yahoogroups.com
Cc: dawg-hsmm@yahoogroups.com
Sent: Sunday, June 10, 2012 9:16 PM
Subject: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version 0.4.3 released

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2541. Re: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version 0.4.3 released

Yahoo group: DAWG-HSMM
Date: 2012-06-11 03:52:59 UTC
From: Rusty Haddock
Topic: 2536 Message: 2541

```
Scott Scheirman wrote:
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>0.42 releases, including hsmm-mesh-0.42-brcm-trx.
>
>I don't see any 0.43 versions, nor a 'patch'.

Scott,
It's you. :-) You probably need to force your browser to reload or
clear your browser's cache. The files are there!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
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2542. Re: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version 0.4.3 released

Yahoo group: DAWG-HSMM
Date: 2012-06-11 04:38:24 UTC
From: Glenn Currie
Topic: 2536 Message: 2542

The full down load seems to work.

The updates may download multiple patches. The multiple patchs should load in order. All the pending patches should be down loaded. When they are all down loaded, your firmware should be the exact same bytes as if you did a full load.

Loading patches is different than doing a full down load. If done properly, your settings should be preserved. A full down load will erase any custom settings you have made. If patches are properly loaded, you should have the same firmware load as if you did a full load.

.bin files are required by the original Linksys loader. The Linksys loader will not down load .trx files. Once you have mesh fimrware loaded, you should be able to load the .trx binaries to load from then on.

I hope this helps.

-Glenn

From: Scott Scheirman <ad7xv.scott@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Sunday, June 10, 2012 10:50 PM
Subject: Re: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version 0.4.3 released

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Subject: [DAWG-HSMM] Re: [Austin_HSMM_Development] firmware version 0.4.3 released

algorithmaton wrote:
>This is a bug-fix release which includes:
>
>- fixes for port forwarding from the wan
>- replaced the list of ping hosts for the olsr dynamic default gateway
>
>If the patch is installed it will restart olsr so you will see a temporary
>loss of mesh access, but this will quickly resolve itself. If you have a
>gateway node you should install the patch there first to re-establish
>internet access to the rest of your mesh.

And if your gateway has lost its Internet connectivity you can download
the patch from http://hsmm-mesh.org/software-download.html. The full
0.4.3 firmware load can be downloaded there also.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2543. Ham-Com Thanks - new node in Tulsa

Yahoo group: DAWG-HSMM
Date: 2012-06-11 17:27:30 UTC
From: ka5j
Topic: 2543 Message: 2543

Thank you to all who presented this weekend at Ham-Com. I learned a lot and managed to load the 0.4.3 firmware on my WRT54GL which is on the air. I need to get it outside with some decent antennas now.

Dave KA5J

2544. Re: [DAWG-HSMM] Ham-Com Thanks - new node in Tulsa

Yahoo group: DAWG-HSMM
Date: 2012-06-11 18:50:05 UTC
From: Rusty Haddock
Topic: 2543 Message: 2544

ka5j wrote:
>Thank you to all who presented this weekend at Ham-Com. I learned a
>lot and managed to load the 0.4.3 firmware on my WRT54GL which is on
>the air. I need to get it outside with some decent antennas now.

Glad we could help you enjoy another aspect of Ham Radio!

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2545. Bad flash recovery

Yahoo group: DAWG-HSMM
Date: 2012-06-11 23:58:16 UTC
From: Todd Caldwell
Topic: 2545 Message: 2545

Hi folks,

I had an update go bad on me. I have a node that I can ssh into, but it won't come up as a mesh node.

Are there instructions on how to fix this via the command line posted somewhere ?

Thanks,

Todd Caldwell - K5SLR

2546. Re: Bad flash recovery

Yahoo group: DAWG-HSMM
Date: 2012-06-12 00:25:25 UTC
From: Scott
Topic: 2545 Message: 2546

Take a look at this web page and the TFTP recovery method.

http://www.dd-wrt.com/wiki/index.php/Recover_from_a_Bad_Flash#Recovering_with_TFTP

You should probably download the original linksys .bin file to put the router back to factory, and then attempt the update to a mesh node again.

Be sure to make note of the ip address of the router. If you can ssh into it you should be able to tftp into it with that address.

Good luck.

Scott

--- In DAWG-HSMM@yahoogroups.com, Todd Caldwell <tmCaldwell@...> wrote:
>
> Hi folks,
>
> I had an update go bad on me. I have a node that I can ssh into, but
> it won't come up as a mesh node.
>
> Are there instructions on how to fix this via the command line posted
> somewhere ?
>
> Thanks,
>
> Todd Caldwell - K5SLR
>

2547. Re: [DAWG-HSMM] Bad flash recovery

Yahoo group: DAWG-HSMM
Date: 2012-06-12 02:08:53 UTC
From: Rusty Haddock
Topic: 2545 Message: 2547

Todd Caldwell wrote:
>Hi folks,
>
> I had an update go bad on me. I have a node that I can ssh into, but
>it won't come up as a mesh node.

Update as in patch or a full firmware load? A little more description
would be helpful as I stopped reading minds after... well, it's been
a while.

Remember on the full load that the router comes up as an access point
with an SSID of MESHNODE. At this point, you connect to its webserver,
preferably via a LAN port.

>Are there instructions on how to fix this via the command line posted
>somewhere ?

The instructions for loading the full firmware are in the User Documents
section on hsmm-mesh.org

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2548. Re: [DAWG-HSMM] Bad flash recovery

Yahoo group: DAWG-HSMM
Date: 2012-06-12 02:55:38 UTC
From: Todd Caldwell
Topic: 2545 Message: 2548

Further investigation is showing it's not as bad as I thought initially. RF side is still up. LAN is not where I expected due to some experimentation that persisted when I thought it hadn't.

I'm trying to install the patches from 0.4.0 up to 0.4.3. Looks like they are WAY slower to install than I though. At least the 0.4.1 patch.

Got 0.4.1 installed, trying 0.4.2 now. Several minutes in and counting.

Todd

Rusty Haddock wrote:
> Todd Caldwell wrote:
> >Hi folks,
> >
> > I had an update go bad on me. I have a node that I can ssh into, but
> >it won't come up as a mesh node.
>
> Update as in patch or a full firmware load? A little more description
> would be helpful as I stopped reading minds after... well, it's been
> a while.
>
> Remember on the full load that the router comes up as an access point
> with an SSID of MESHNODE. At this point, you connect to its webserver,
> preferably via a LAN port.
>
> >Are there instructions on how to fix this via the command line posted
> >somewhere ?
>
> The instructions for loading the full firmware are in the User Documents
> section on hsmm-mesh.org
>
> -Rusty-
>

2549. Digital Tuesday 2, 6/19/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-06-16 00:01:43 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2549 Message: 2549

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday June 19, 2012
7:00 pm - 8:30 pm
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2550. At the next Digital Tuesday meeting...

Yahoo group: DAWG-HSMM
Date: 2012-06-18 18:37:32 UTC
From: Rusty Haddock
Topic: 2549 Message: 2550

If you haven't heard, weren't at our HamCom presentations, or haven't been reading this mailing list, there's a new patch that's been released which that brings our nodes upto version 0.4.3. There's also a full load available as well. This is definitely needed by your gateway node(s)!

Tuesday night we'll go over:

1) The new 0.4.3 patch/release: what got fixed and how to get it loaded into your router.
2) What went on at HamCom, HSMM-wise... and we'll do it with the lights on!
3) Fresnel Zone by the numbers. Not a technical treatise per se but I will go over the numbers. I'm thinking this will be a whiteboard presentation and I'll bring mine.

Hopefully we'll have some folks that are new to HSMM-MESH stop by and we'll try to get their questions answered as well.

Same Bat-Time: 7:00pm

Same Bat-Location: 299 Connor Ln, Lucas, TX
Come down the driveway, through the back gate,
and around back to the pool house.

Bat-Map: http://tinyurl.com/3pw5fvq

Bat-Repeater: Talk-in will be on the Plano repeater, 147.180+ PL107.2

See you there!

```
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2551. Digital Tuesday 2, 6/19/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-06-19 00:01:44 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2549 Message: 2551

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday June 19, 2012
7:00 pm - 8:30 pm
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2552. LAN problems with WRT54G V1.1, Firmware Version 0.4.3

Yahoo group: DAWG-HSMM
Date: 2012-06-25 22:34:11 UTC
From: kauffmannkd
Topic: 2552 Message: 2552

A fellow ham tried to load HSMM-MESH firmware versions 0.4.2 and 0.4.3 on a WRT54G V1.1.

The WRT54G V1.1 is new to him, and did not have an earlier HSMM-MESH firmware load.

We can communicate with the node menus through the mesh link, but PCs connected to the LAN ports do not get addresses though DHCP, and can not communicate with a hard coded address. (I can not get to the menus through the WAN port, but I am able to SSH into the router through the WAN port address).

I believe that the network config may be in error.

I have copied the 'network' file from /etc/config here:

```
BusyBox v1.4.2 (2008-08-04 21:28:11 CDT) Built-in shell (ash)
Enter 'help' for a list of built-in commands.

_______ ________ __
| |.-----.-----.-----.| | | |.----.| |_
| - || _ | -__| || | | || _|| _|
|_______|| __|_____|__|__||________||__| |____|
|__| W I R E L E S S F R E E D O M
KAMIKAZE 7.09 -------------------------------------
* 10 oz Vodka Shake well with ice and strain
* 10 oz Triple sec mixture into 10 shot glasses.
* 10 oz lime juice Salute!

ad5oo build 126 version 0.4.3
---------------------------------------------------
root@W4DTB-1:~# cd /etc/config
root@W4DTB-1:/etc/config# cat network
#### VLAN configuration
config switch eth0
option vlan0 "1 2 3 4 5*"
option vlan1 "0 5"

#### Loopback configuration
config interface loopback
option ifname "lo"
option proto static
option ipaddr 127.0.0.1
option netmask 255.0.0.0

#### LAN configuration
config interface lan
option ifname "eth0.0"
option proto static
option ipaddr 172.27.30.1
```

```
option netmask 255.255.255.0
option dns "8.8.8.8 8.8.4.4"

#### WAN configuration
config interface wan
option ifname "eth0.1"
option proto dhcp

#### WIFI configuration
config interface wifi
option ifname "wl0"
option proto static
option ipaddr 10.163.43.24
option netmask 255.0.0.0

root@W4DTB-1:/etc/config#
```

It is similar to the "network' file from a working WRT54GL, but is significantly different in the "config switch' area, where my working WRT54GL has:

```
config switch eth0
option vlan0 "0 1 2 3 5*"
option vlan1 "4 5"
```

I believe that these values are being set by /etc/init.d/netconfig

I queried some of the NVRAM settings, and determined that for the non-working WRT54G, the Model is a "Linksys WRT54G V1.x", the Boardtype is a "bcm94710dev", and the Boardnum is "42". Given those NVRAM values, the vlan0 and vlan1 are set to

```
config switch eth0
option vlan0 "1 2 3 4 5*"
option vlan1 "0 5"
```

For the working WRT54GL, the Model is "Linksys WRT54G/GS/GL", the Boardtype is "0x0467", and the Boardnum is "42". Given those values, /etc/init.d/netconfig sets the values to

```
config switch eth0
option vlan0 "0 1 2 3 5*"
option vlan1 "4 5"
```

I searched the web on "bcm94710dev Openwrt WRT54G " and ran across this post:

https://dev.openwrt.org/browser/trunk/openwrt/target/linux/package/base-files/files/brcm-2.4/etc/init.d/S05nvram?rev=2993

which shows some changes between White Russian and Kamikaze that required some fix up. The changes were made to /etc/network.overrides, and contained the following:

```
69
70 # linksys bug; remove when not using static configuration for lan
71 nvram set lan_proto="static"
72
73 # hacks for wrt54g 1.x hardware
```

```
74 [ "$(nvram get boardnum)" = "42" \
75 -a "$(nvram get boardtype)" = "bcm94710dev" ] && {
76 debug "### wrt54g 1.x hack ###"
77 nvram set vlan1hwname="et0"
78 nvram set vlan2hwname="et0"
79 remap eth0 vlan2
80 remap eth1 vlan1
81 }
82
```

I note that in the WRT54G V1.1 router, the vlan2hwname variable is not set, while vlan0hwname, and vlan1hwname are both set to "et0". (using nvram get ....)

Does someone have a working HSMM-MESH 0.4.x version running on a WRT54G V1.1, and if so, can you tell me what your /etc/config/network file looks like?

Thank you,
Ken - KR4FM

2553. Re: LAN problems with WRT54G V1.1, Firmware Version 0.4.3

Yahoo group: DAWG-HSMM
Date: 2012-06-27 20:51:51 UTC
From: kauffmannkd
Topic: 2552 Message: 2553

After reading through various posts on the web, I have come up with a temporary solution.

The WRT54G V1.1 is an odd duck in that is uses legacy code from the original driver, and offers less flexibility in the definition of vlans. There are a number of fix-ups that occur in the OpenWrt versions that occur after the one used by the HSMM-MESH firmware.

Effectively, in V1.1 the WAN is vlan1, and the LAN is vlan2. Wireless is eth2.

My temporary fix involves setting two nvram variables, and modifying the /etc/config/network file (and the _setup files that recreate it)

The first nvram variable establishes vlan2.
nvram set vlan2hwname="et0"
The second nvram variable is really a modification of a existing one
nvram set lan_ifnames="vlan0 vlan1 vlan2 eth2"

(the contents of lan_ifnames before the modification was "vlan0 eth1 eth2 eth3")

I did an "nvram commit" after the above changes.

The modified /etc/config/network follows:

```
root@W4DTB-1:/etc/config# cat network
#### VLAN configuration
config switch eth0
option vlan2 "1 2 3 4 5*"
option vlan1 "0 5"

#### Loopback configuration
config interface loopback
option ifname "lo"
option proto static
option ipaddr 127.0.0.1
option netmask 255.0.0.0

#### LAN configuration
config interface lan
option ifname "eth0.2"
option proto static
option ipaddr 172.27.30.1
option netmask 255.255.255.0
option dns "8.8.8.8 8.8.4.4"

#### WAN configuration
config interface wan
option ifname "eth0.1"
option proto dhcp
```

```
#### WIFI configuration
config interface wifi
option ifname "wl0"
option proto static
option ipaddr 10.163.43.24
option netmask 255.0.0.0

root@W4DTB-1:/etc/config# nvram get lan_ifnames
vlan0 vlan1 vlan2 eth2
root@W4DTB-1:/etc/config# nvram show | grep vlan.*hwname
vlan2hwname=et0
vlan1hwname=et0
vlan0hwname=et0
size: 26614 bytes (6154 left)
root@W4DTB-1:/etc/config#
```

Note that the big change to the "network" file is changing "vlan0" to "vlan2" in "Config switch eth0" and changing "eth0.0" to "eth0.2" in the LAN configuration. Also note that the WRT54G ports that are used for the LAN and WAN actually do change between V1.1 and V2.0 (and beyond.)

I also modified the html in /www/cgi-bin/ports and /www/cgi-bin/status, by changing every instance of "eth0.0" to "eth0.2"

I fully realize that these changes are a total hack, and will probably not survive changes that are made through the configuration menus. They do currently survive a reboot. I do have access to the WAN and LAN ports, and PCs connected to the LAN ports are able to communicate across the mesh.

I am not wedded to these changes, and would gladly implement a better fix.

Thanks,
Ken - KR4FM

--- In DAWG-HSMM@yahoogroups.com, "kauffmannkd" <kauffman@...> wrote:
>
> A fellow ham tried to load HSMM-MESH firmware versions 0.4.2 and 0.4.3 on a WRT54G V1.1.
>
> The WRT54G V1.1 is new to him, and did not have an earlier HSMM-MESH firmware load.
>
> We can communicate with the node menus through the mesh link, but PCs connected to the LAN ports do not get addresses though DHCP, and can not communicate with a hard coded address. (I can not get to the menus through the WAN port, but I am able to SSH into the router through the WAN port address).
>
> I believe that the network config may be in error.
>
> I have copied the 'network' file from /etc/config here:
>
>
> BusyBox v1.4.2 (2008-08-04 21:28:11 CDT) Built-in shell (ash)
> Enter 'help' for a list of built-in commands.
>

```
> _______ ________ __
> | |.-----.-----.-----.| | | |.----.| |_
> | - || _ | -__| || | | || _|| _|
> |_______|| __|_____|__|__||________||__| |____|
> |__| W I R E L E S S F R E E D O M
> KAMIKAZE 7.09 -------------------------------------
> * 10 oz Vodka Shake well with ice and strain
> * 10 oz Triple sec mixture into 10 shot glasses.
> * 10 oz lime juice Salute!
>
> ad5oo build 126 version 0.4.3
> ----------------------------------------------------
> root@W4DTB-1:~# cd /etc/config
> root@W4DTB-1:/etc/config# cat network
> #### VLAN configuration
> config switch eth0
> option vlan0 "1 2 3 4 5*"
> option vlan1 "0 5"
>
>
> #### Loopback configuration
> config interface loopback
> option ifname "lo"
> option proto static
> option ipaddr 127.0.0.1
> option netmask 255.0.0.0
>
>
> #### LAN configuration
> config interface lan
> option ifname "eth0.0"
> option proto static
> option ipaddr 172.27.30.1
> option netmask 255.255.255.0
> option dns "8.8.8.8 8.8.4.4"
>
>
> #### WAN configuration
> config interface wan
> option ifname "eth0.1"
> option proto dhcp
>
>
> #### WIFI configuration
> config interface wifi
> option ifname "wl0"
> option proto static
> option ipaddr 10.163.43.24
> option netmask 255.0.0.0
>
```

> root@W4DTB-1:/etc/config#
>
> It is similar to the "network' file from a working WRT54GL, but is significantly different in the "config switch' area, where my working WRT54GL has:
>
> config switch eth0
> option vlan0 "0 1 2 3 5*"
> option vlan1 "4 5"
>
> I believe that these values are being set by /etc/init.d/netconfig
>
> I queried some of the NVRAM settings, and determined that for the non-working WRT54G, the Model is a "Linksys WRT54G V1.x", the Boardtype is a "bcm94710dev", and the Boardnum is "42". Given those NVRAM values, the vlan0 and vlan1 are set to
>
> config switch eth0
> option vlan0 "1 2 3 4 5*"
> option vlan1 "0 5"
>
> For the working WRT54GL, the Model is "Linksys WRT54G/GS/GL", the Boardtype is "0x0467", and the Boardnum is "42". Given those values, /etc/init.d/netconfig sets the values to
>
> config switch eth0
> option vlan0 "0 1 2 3 5*"
> option vlan1 "4 5"
>
> I searched the web on "bcm94710dev Openwrt WRT54G " and ran across this post:
>
> https://dev.openwrt.org/browser/trunk/openwrt/target/linux/package/base-files/files/brcm-2.4/etc/init.d/S05nvram?rev=2993
>
> which shows some changes between White Russian and Kamikaze that required some fix up. The changes were made to /etc/network.overrides, and contained the following:
>
> 69
> 70 # linksys bug; remove when not using static configuration for lan
> 71 nvram set lan_proto="static"
> 72
> 73 # hacks for wrt54g 1.x hardware
> 74 ["$(nvram get boardnum)" = "42" \
> 75 -a "$(nvram get boardtype)" = "bcm94710dev"] && {
> 76 debug "### wrt54g 1.x hack ###"
> 77 nvram set vlan1hwname="et0"
> 78 nvram set vlan2hwname="et0"
> 79 remap eth0 vlan2
> 80 remap eth1 vlan1
> 81 }
> 82
>
>

> I note that in the WRT54G V1.1 router, the vlan2hwname variable is not set, while vlan0hwname, and vlan1hwname are both set to "et0". (using nvram get ....)
>
> Does someone have a working HSMM-MESH 0.4.x version running on a WRT54G V1.1, and if so, can you tell me what your /etc/config/network file looks like?
>
> Thank you,
> Ken - KR4FM
>

2554. Re: [DAWG-HSMM] LAN problems with WRT54G V1.1, Firmware Version 0.4.3

Yahoo group: DAWG-HSMM
Date: 2012-06-28 00:10:32 UTC
From: Rusty Haddock
Topic: 2552 Message: 2554

kauffmannkd wrote:
>A fellow ham tried to load HSMM-MESH firmware versions 0.4.2 and 0.4.3
>on a WRT54G V1.1.
>
>The WRT54G V1.1 is new to him, and did not have an earlier HSMM-MESH firmware load.
>
>We can communicate with the node menus through the mesh link, but
>PCs connected to the LAN ports do not get addresses though DHCP,
>and can not communicate with a hard coded address. (I can not get
>to the menus through the WAN port, but I am able to SSH into the
>router through the WAN port address).

Keep in mind that DHCP addresses are requested by the client (your PC) and
not just forced out. I have found that, at least with some versions of
Linux, you may have to pull out the ethernet cable and replace it before
the PC realizes something's changed (like when your router reboots).
This may also vary according to the ethernet adapter in your PC.

>I believe that the network config may be in error.

Why???

>I have copied the 'network' file from /etc/config here:

Looks just like the one in my WRT54G v1.1 except for my WAN is disabled
and the WIFI ipaddress is different, naturally. My v1.1 is running just
fine with the stock firmware.

>It is similar to the "network' file from a working WRT54GL, but
>is significantly different in the "config switch' area, where my
>working WRT54GL has:

That's correct -- and it should be. This file gets written slightly
differently depending on which version of hardware the firmware is
running.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2555. Re: [DAWG-HSMM] Re: LAN problems with WRT54G V1.1, Firmware Version 0.4.3

Yahoo group: DAWG-HSMM
Date: 2012-06-28 00:18:23 UTC
From: Rusty Haddock
Topic: 2552 Message: 2555

kauffmannkd wrote:
>
>After reading through various posts on the web, I have come up with a temporary solution.
>
>The WRT54G V1.1 is an odd duck in that is uses legacy code from the original driver, and offers less flexibility in the definition of vlans. There are a number of fix-ups that occur in the OpenWrt versions that occur after the one used by the HSMM-MESH firmware.
>
>Effectively, in V1.1 the WAN is vlan1, and the LAN is vlan2. Wireless is eth2.

Unless you've got a V1.1 that's got "odd" hardware in it I'm not seeing
the need for this "solution".

What's the output from the command 'get_model' and 'nvram get boardtype' ??

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2556. July 3rd meeting of Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2012-06-28 03:34:25 UTC
From: Rusty Haddock
Topic: 2556 Message: 2556

Given that Kip is out of the country (out of his mind too but that's another story :-) and given it's close proximity to Independence Day, the 1st Tuesday meeting of Digital Tuesday for July has been cancelled.

The next meeting is currently planned to be held on July 17th, the third Tuesday of July. Hope to see y'all there! ... well, at least as many as we can fit into the pool house.

Hope y'all have a SAFE and enjoyable 4th of July!

73
-Rusty-

Doug & Kip: can the reminder be turned off or changed for next week's meeting? Also, the PARK schedule should be changed as well. TNX!
--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2557. Re: LAN problems with WRT54G V1.1, Firmware Version 0.4.3

Yahoo group: DAWG-HSMM
Date: 2012-06-28 15:42:46 UTC
From: kauffmannkd
Topic: 2552 Message: 2557

Rusty,

Thank you for responding to my request.

I am pleased to hear that the standard 0.4.3 load is working on your WRT54G V1.1 router.

I don't know what kind of abuse this router suffered before my friend purchased it. All that I can say is that the standard 0.4.3 and 0.4.2 firmwares did not work with it.

The get_model does correctly identify a WRT54G V1.1, and the "nvram get [boardtype] does correctly identify a "bcm94710dev", as noted in the original post.

As far as I can tell, the _setup... scripts in /etc/config.mesh/ do not make any distinctions regarding the board type. In any case, the fact that yours works seems to point elsewhere.

Obviously, we would prefer to run the standard firmware if we could. We only made the changes because the Lan ports were unconnected without them.

When I researched the OpenWrt forums, and the web, the changes typically addressed the definition of vlan2/eth0 in V1.1, and how everything was translated to vlan0 in later versions.

As I noted in the original post, an "nvram get lan_ifnames" returned "vlan0 eth1 eth2 eth3", before I modified it to include vlan1 and vlan2.

If it is not too much trouble, could I ask you to tell me what you see from the same command?

Thank you,
Ken - KR4FM

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> kauffmannkd wrote:
> >
> >After reading through various posts on the web, I have come up with a temporary solution.
> >
> >The WRT54G V1.1 is an odd duck in that is uses legacy code from the original driver, and offers less flexibility in the definition of vlans. There are a number of fix-ups that occur in the OpenWrt versions that occur after the one used by the HSMM-MESH firmware.
> >
> >Effectively, in V1.1 the WAN is vlan1, and the LAN is vlan2. Wireless is eth2.
>
> Unless you've got a V1.1 that's got "odd" hardware in it I'm not seeing
> the need for this "solution".
>

```
> What's the output from the command 'get_model' and 'nvram get boardtype' ??
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | ( -< O o Van Alstyne (TX) Metropolitan Area
> |/\__V__/ Math illiteracy affects 7 out of 5 people!
>
```

2558. Re: [DAWG-HSMM] Re: LAN problems with WRT54G V1.1, Firmware Version 0.4.3

Yahoo group: DAWG-HSMM
Date: 2012-06-28 19:31:08 UTC
From: Rusty Haddock
Topic: 2552 Message: 2558

kauffmannkd wrote:
>Rusty,
>
>Thank you for responding to my request.
>
>I am pleased to hear that the standard 0.4.3 load is working on your WRT54G V1.1 router.
>
>I don't know what kind of abuse this router suffered before my
>friend purchased it. All that I can say is that the standard 0.4.3
>and 0.4.2 firmwares did not work with it.

I have seen bad wiring cause the death of router ports. I s'pose the question is "Do the LAN ports work with the default Linksys firmware?" Another question might be "Does your PC's ethernet socket indicate that a link is present when you attach the cable to it and the '54G's LAN port?"

>The get_model does correctly identify a WRT54G V1.1, and the
>"nvram get [boardtype] does correctly identify a "bcm94710dev",
>as noted in the original post.

OK, same as mine.

>As far as I can tell, the _setup... scripts in /etc/config.mesh/
>do not make any distinctions regarding the board type. In any case,
>the fact that yours works seems to point elsewhere.

The _setup "scripts" are not scripts, per se, but simply variable settings. The place that the board type is used to setup the network file is in /etc/init.d/netconfig.

>Obviously, we would prefer to run the standard firmware if we could.
>We only made the changes because the Lan ports were unconnected
>without them.

>When I researched the OpenWrt forums, and the web, the changes
>typically addressed the definition of vlan2/eth0 in V1.1, and how
>everything was translated to vlan0 in later versions.
>

>As I noted in the original post, an "nvram get lan_ifnames"
>returned "vlan0 eth1 eth2 eth3", before I modified it to include
>vlan1 and vlan2.
>
>If it is not too much trouble, could I ask you to tell me what you see from the same command?

```
root@ae5ae-base1:/etc/init.d# nvram get lan_ifnames
eth0 eth2 eth3 eth4
root@ae5ae-base1:/etc/init.d#
```

Although, I did grep the entire filesystem and couldn't find an instance where lan_ifnames is used...

I'll cc: David Rivenberg and see what he thinks.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2559. Re: [DAWG-HSMM] July 3rd meeting of Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2012-06-29 21:43:40 UTC
From: John - N5TIM
Topic: 2556 Message: 2559

I'd like to see some tutoring at one of our meeting on getting the WRT54 to function as an ARRS I gate. There are several programs that are out there to do this, but some guidance to the lower echelon of us is needed. Something like <http://wiki.ham.fi/Aprx.en> seems to be one that has been talked about. I'm sure there are others.

There are events we do that this could come in very handy in the boonies.

73, John
- -
John Galvin - N5TIM
jrgalvin2@gmail.com
www.n5tim.info - For Public Service & EmCom Information

JUNK - "Stuff" we throw away ... STUFF - "Junk" we keep.

2560. Digital Tuesday 1, 7/3/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-06-30 00:01:43 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2560 Message: 2560

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday July 3, 2012
7:00 pm - 8:30 pm
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2561. Re: [DAWG-HSMM] Digital Tuesday 1, 7/3/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-06-30 02:10:44 UTC
From: Rusty Haddock
Topic: 2560 Message: 2561

```
DAWG-HSMM@yahoogroups.com wrote:
>Reminder from: DAWG-HSMM Yahoo! Group
> http://groups.yahoo.com/group/DAWG-HSMM/cal
>
>Digital Tuesday 1
>Tuesday July 3, 2012
>7:00 pm - 8:30 pm
>Location: 299 Connor Ln, Lucas TX

As I said in my earlier message to the list, and to remind everyone,
this meeting has been CANCELLED!!! The plan is to resume on the
third Tuesday of July, the 17th, same Bat-Time, same Bat-Channel.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2562. [Austin_HSMM_Development] FINALLY GOT A VIDEO TO WORK! (fwd)

Yahoo group: DAWG-HSMM
Date: 2012-07-04 06:07:39 UTC
From: Rusty Haddock
Topic: 2562 Message: 2562

FYI, FWIW...

To: Austin_HSMM_Development@yahoogroups.com
From: "Jim Kinter Jr." <jim@...>
Subject: [Austin_HSMM_Development] FINALLY GOT A VIDEO TO WORK!
Date: Tue, 03 Jul 2012 23:11:16 -0500

On the main www.hsmm-mesh.org site, under HSMM Files is a listing to
Kipster's 2012 Hamcomm presentation video !!

Direct Link:
http://www.hsmm-mesh.org/documentation/133-ae5ib-intro-to-hsmm-mesh-2012-hamcomm.html

I finally got the combo of codecs and youtube's preferences to jive
and got it uploaded/converted whatever, and then embedded into a page
on our main site.

Now that I know what it wants, I will go ahead and grab Glenn's off
the camera. Expect it by the end of this weekend.....

Pass the word to other groups that I may not be a member of (yet), or
anyone who needs a good Introduction presentation video

73
Jim
K5KTF
Cedar Park TX
EM10bm
-.- ..... -.- - ..-.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2563. WRT54G Cap

Yahoo group: DAWG-HSMM
Date: 2012-07-07 20:09:34 UTC
From: Frank Roesch
Topic: 2563 Message: 2563

Is there a location that will show me what capacitor to use on the input power connection of the 54G for POE.

Thank You,

Frank Roesch - K5FER

Rowlett, TX.

2564. Re: [DAWG-HSMM] WRT54G Cap

Yahoo group: DAWG-HSMM
Date: 2012-07-07 20:18:23 UTC
From: Todd Caldwell
Topic: 2563 Message: 2564

If you mean the cap you want to add if you're deploying your node on a long PoE cable, then you want about 10,000 uF.

If the original case is to be used, I suggest 3 x 3300 uF (25 or 35V) in parallel. These will fit in most of the WRT54G cases.

I usually just solder leads onto the bottom side of the board at the power connector. Do be careful of polarity of course. Filling the router case with metal confetti is bad for it.

73's

Todd Caldwell - K5SLR

Frank Roesch wrote:
> <!-- /* start of attachment style */ .ygrp-photo-title{ clear: both;
> font-size: smaller; height: 15px; overflow: hidden; text-align:
> center; width: 75px; } div.ygrp-photo{ background-position: center;
> background-repeat: no-repeat; background-color: white; border: 1px
> solid black; height: 62px; width: 62px; } div.photo-title a,
> div.photo-title a:active, div.photo-title a:hover, div.photo-title
> a:visited { text-decoration: none; } div.attach-table div.attach-row {
> clear: both; } div.attach-table div.attach-row div { float: left; /*
> margin: 2px;*/ } p { clear: both; padding: 15px 0 3px 0; overflow:
> hidden; } div.ygrp-file { width: 30px; valign: middle; }
> div.attach-table div.attach-row div div a { text-decoration: none; }
> div.attach-table div.attach-row div div span { font-weight: normal; }
> div.ygrp-file-title { font-weight: bold; } /* end of attachment style
> */ --> <!-- /* Font Definitions */ @font-face {font-family:Wingdings;
> panose-1:5 0 0 0 0 0 0 0 0 0;} @font-face {font-family:Wingdings;
> panose-1:5 0 0 0 0 0 0 0 0 0;} @font-face {font-family:Calibri;
> panose-1:2 15 5 2 2 2 4 3 2 4;} @font-face {font-family:Verdana;
> panose-1:2 11 6 4 3 5 4 4 2 4;} @font-face {font-family:Consolas;
> panose-1:2 11 6 9 2 2 4 3 2 4;} /* Style Definitions */ p.MsoNormal,
> li.MsoNormal, div.MsoNormal {margin:0in; margin-bottom:.0001pt;
> font-size:12.0pt; font-family:"Times New Roman","serif";} a:link,
> span.MsoHyperlink {mso-style-priority:99; color:#1E66AE;
> text-decoration:underline;} a:visited, span.MsoHyperlinkFollowed
> {mso-style-priority:99; color:#1E66AE; text-decoration:underline;} p
> {mso-style-priority:99; mso-margin-top-alt:auto; margin-right:0in;
> mso-margin-bottom-alt:auto; margin-left:0in; font-size:12.0pt;
> font-family:"Times New Roman","serif";} code {mso-style-priority:99;
> font-family:"Courier New";} pre {mso-style-priority:99;
> mso-style-link:"HTML Preformatted Char"; margin:0in;
> margin-bottom:.0001pt; font-size:10.0pt; font-family:"Courier New";}
> tt {mso-style-priority:99; font-family:"Courier New";} span.cat

```
> {mso-style-name:cat;} span.ct {mso-style-name:ct;}
> span.HTMLPreformattedChar {mso-style-name:"HTML Preformatted Char";
> mso-style-priority:99; mso-style-link:"HTML Preformatted";
> font-family:"Consolas","serif";} p.attach, li.attach, div.attach
> {mso-style-name:attach; mso-margin-top-alt:auto; margin-right:0in;
> mso-margin-bottom-alt:auto; margin-left:0in; font-size:9.0pt;
> font-family:"Arial","sans-serif";} p.bold, li.bold, div.bold
> {mso-style-name:bold; mso-margin-top-alt:auto; margin-right:0in;
> mso-margin-bottom-alt:auto; margin-left:0in; font-size:10.0pt;
> font-family:"Arial","sans-serif"; font-weight:bold;} p.green,
> li.green, div.green {mso-style-name:green; mso-margin-top-alt:auto;
> margin-right:0in; mso-margin-bottom-alt:auto; margin-left:0in;
> font-size:12.0pt; font-family:"Times New Roman","serif";
> color:#628C2A;} p.replbq, li.replbq, div.replbq
> {mso-style-name:replbq; margin:3.0pt; font-size:12.0pt;
> font-family:"Times New Roman","serif";} p.ad, li.ad, div.ad
> {mso-style-name:ad; mso-margin-top-alt:auto; margin-right:0in;
> mso-margin-bottom-alt:auto; margin-left:0in; font-size:12.0pt;
> font-family:"Times New Roman","serif";} p.underline, li.underline,
> div.underline {mso-style-name:underline; mso-margin-top-alt:auto;
> margin-right:0in; mso-margin-bottom-alt:auto; margin-left:0in;
> font-size:12.0pt; font-family:"Times New Roman","serif";}
> span.yshortcuts {mso-style-name:yshortcuts;} p.ad1, li.ad1, div.ad1
> {mso-style-name:ad1; mso-margin-top-alt:auto; margin-right:0in;
> mso-margin-bottom-alt:auto; margin-left:0in; font-size:12.0pt;
> font-family:"Times New Roman","serif";} p.ad2, li.ad2, div.ad2
> {mso-style-name:ad2; mso-margin-top-alt:auto; margin-right:0in;
> margin-bottom:7.5pt; margin-left:0in; font-size:12.0pt;
> font-family:"Times New Roman","serif";} p.underline1, li.underline1,
> div.underline1 {mso-style-name:underline1; mso-margin-top-alt:auto;
> margin-right:0in; mso-margin-bottom-alt:auto; margin-left:0in;
> font-size:12.0pt; font-family:"Times New Roman","serif";
> text-decoration:underline;} span.yshortcuts1
> {mso-style-name:yshortcuts1; font-family:"Verdana","sans-serif";
> font-weight:bold;} span.yshortcuts2 {mso-style-name:yshortcuts2;
> font-family:"Verdana","sans-serif"; font-weight:normal;}
> span.EmailStyle36 {mso-style-type:personal-reply;
> font-family:"Calibri","sans-serif"; color:#1F497D;} .MsoChpDefault
> {mso-style-type:export-only; font-size:10.0pt;} @page WordSection1
> {size:8.5in 11.0in; margin:1.0in 1.0in 1.0in 1.0in;} div.WordSection1
> {page:WordSection1;} /* List Definitions */ @list l0
> {mso-list-id:1972592320; mso-list-template-ids:2020899598;} @list
> l0:level1 {mso-level-number-format:bullet; mso-level-text:\F0B7;
> mso-level-tab-stop:.5in; mso-level-number-position:left;
> text-indent:-.25in; mso-ansi-font-size:10.0pt; font-family:Symbol;}
> @list l0:level2 {mso-level-number-format:bullet; mso-level-text:o;
> mso-level-tab-stop:1.0in; mso-level-number-position:left;
> text-indent:-.25in; mso-ansi-font-size:10.0pt; font-family:"Courier
> New"; mso-bidi-font-family:"Times New Roman";} @list l0:level3
> {mso-level-number-format:bullet; mso-level-text:\F0A7;
```

```
> mso-level-tab-stop:1.5in; mso-level-number-position:left;
> text-indent:-.25in; mso-ansi-font-size:10.0pt; font-family:Wingdings;}
> @list l0:level4 {mso-level-number-format:bullet; mso-level-text:\F0A7;
> mso-level-tab-stop:2.0in; mso-level-number-position:left;
> text-indent:-.25in; mso-ansi-font-size:10.0pt; font-family:Wingdings;}
> @list l0:level5 {mso-level-number-format:bullet; mso-level-text:\F0A7;
> mso-level-tab-stop:2.5in; mso-level-number-position:left;
> text-indent:-.25in; mso-ansi-font-size:10.0pt; font-family:Wingdings;}
> @list l0:level6 {mso-level-number-format:bullet; mso-level-text:\F0A7;
> mso-level-tab-stop:3.0in; mso-level-number-position:left;
> text-indent:-.25in; mso-ansi-font-size:10.0pt; font-family:Wingdings;}
> @list l0:level7 {mso-level-number-format:bullet; mso-level-text:\F0A7;
> mso-level-tab-stop:3.5in; mso-level-number-position:left;
> text-indent:-.25in; mso-ansi-font-size:10.0pt; font-family:Wingdings;}
> @list l0:level8 {mso-level-number-format:bullet; mso-level-text:\F0A7;
> mso-level-tab-stop:4.0in; mso-level-number-position:left;
> text-indent:-.25in; mso-ansi-font-size:10.0pt; font-family:Wingdings;}
> @list l0:level9 {mso-level-number-format:bullet; mso-level-text:\F0A7;
> mso-level-tab-stop:4.5in; mso-level-number-position:left;
> text-indent:-.25in; mso-ansi-font-size:10.0pt; font-family:Wingdings;}
> ol {margin-bottom:0in;} ul {margin-bottom:0in;} -->
>
> Is there a location that will show me what capacitor to use on the
> input power connection of the 54G for POE.
>
> Thank You,
>
> Frank Roesch – K5FER
>
> Rowlett, TX.
>
>
>
>
```

2565. Re: [DAWG-HSMM] WRT54G Cap

Yahoo group: DAWG-HSMM
Date: 2012-07-07 20:42:19 UTC
From: Todd Caldwell
Topic: 2563 Message: 2565

I should also note that if you mean to mod the router so that you can do PoE without using an external device/adapter to separate the power and ethernet lines, you will likely find that the ethernet jacks on the WRT54Gs all seem to have 150 ohm resistors (value from memory - it's 150 or 75 I think) across the pairs you would normally use for power. This will cause a small amount of extra power consumption. 1 to 2 Watts.

There are cheap PoE adapter pairs on eBay if you search a bit. I've been able to buy them for about $3 a pair, shipped. That's from Taiwan or China, so you're looking at 1-3 weeks for shipping. You still need the capacitor if you use a long cable, but the installation might be a little cleaner and easier to maintain with the adapters. If you want, the caps can be installed externally this way. Just make up a small cable with a male DC connector on one end and a female on the other, and the caps in the middle.

If you plan to do the internal PoE mod, and don't mind the power loss due to the internal resistor, take a look here:
http://www.techidiots.net/project-pages/wrt54gs-poe-12v-mod/

Todd

ps - sorry for all the HTML junk in my first reply. Eudora doesn't deal with that very gracefully at times.

Frank Roesch wrote:

Is there a location that will show me what capacitor to use on the input power connection of the 54G for POE.

2566. RE: [DAWG-HSMM] WRT54G Cap

Yahoo group: DAWG-HSMM
Date: 2012-07-07 21:17:02 UTC
From: Frank Roesch
Topic: 2563 Message: 2566

Thanks this is what I needed.

Frank

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Todd Caldwell
Sent: Saturday, July 07, 2012 3:42 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] WRT54G Cap

I should also note that if you mean to mod the router so that you can do PoE without using an external device/adapter to separate the power and ethernet lines, you will likely find that the ethernet jacks on the WRT54Gs all seem to have 150 ohm resistors (value from memory - it's 150 or 75 I think) across the pairs you would normally use for power. This will cause a small amount of extra power consumption. 1 to 2 Watts.

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If you plan to do the internal PoE mod, and don't mind the power loss due to the internal resistor, take a look here:
http://www.techidiots.net/project-pages/wrt54gs-poe-12v-mod/

Todd

ps - sorry for all the HTML junk in my first reply. Eudora doesn't deal with that very gracefully at times.

Frank Roesch wrote:

Is there a location that will show me what capacitor to use on the input power connection of the 54G for POE.

2567. Digital Tuesday 2, 7/17/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-07-14 00:01:48 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2567 Message: 2567

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday July 17, 2012
7:00 pm - 8:30 pm
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2568. Re: [DAWG-HSMM] Digital Tuesday 2, 7/17/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-07-15 02:16:48 UTC
From: Rusty Haddock
Topic: 2567 Message: 2568

Due to Kip spending an extra week in Taipei we'll have to either cancel
or postpone this coming Tuesday's meeting.

My question is what would you like to do:
1) Just cancel and our next meeting will be Aug 7th?
or 2) Postpone another week and have our meeting on the 24th?

Please let me know and I'll make an announcement in a few days.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2569. Re: Digital Tuesday 2, 7/17/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-07-15 04:21:26 UTC
From: K
Topic: 2567 Message: 2569

Sorry about this. I was expecting to be back today and the big boss wants us to stay another week. My Inlaws are happy to let me use the pool house, but having a meeting there with me not present is pushing it.

Hope everybody understands. When I get back I will have worked for Flextronics in the U.S. fewer weeks than out of country.

Kip

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> Due to Kip spending an extra week in Taipei we'll have to either cancel
> or postpone this coming Tuesday's meeting.
>
> My question is what would you like to do:
> 1) Just cancel and our next meeting will be Aug 7th?
> or 2) Postpone another week and have our meeting on the 24th?
>
> Please let me know and I'll make an announcement in a few days.
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>

2570. Fwd: TAPR PSR Journal Articles Needed

Yahoo group: DAWG-HSMM
Date: 2012-07-15 19:14:06 UTC
From: Mark Thompson
Topic: 2570 Message: 2570

----- Forwarded Message -----

From: Stan Horzepa <stanzepa@...>
To: tapr-announce@...
Sent: Friday, July 13, 2012 10:16 AM
Subject: [tapr-announce] Write for PSR

The next issue of TAPR's quarterly newsletter, PSR, is the works and this is a call for contributions to the pre-DCC installment of the newsletter.

Anything digital and radio related are potential PSR articles.

Write about...

...Your latest hardware or software project.

...Your experience with TAPR HPSDR projects.

...Your experience with TAPR timing projects.

...Your past Hamvention experience.

...Your past DCC
(Digital Communications Conference) experience.

...You write it and we may publish it

By the way, every article you write that we publish extends your TAPR membership by three months!

The deadline for the next PSR is August 15. Please write early and write often.

73,

WA1LOU - your PSR editor

2571. Digital Tuesday 2, 7/17/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-07-17 00:01:43 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2567 Message: 2571

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday July 17, 2012
7:00 pm - 8:30 pm
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2572. BEFW11S4

Yahoo group: DAWG-HSMM
Date: 2012-07-23 20:12:16 UTC
From: chiefsfan2
Topic: 2572 Message: 2572

I am starting to get into HSMM and I have a BEFW11S4 Linksys router to play with. I read on another email that this unit could be used for HSMM to access mesh but could not act as a main node(rpt) in a mesh system. I looked at HSMM-MESH.org for firm ware to this unit but could not find any. Any help would be appreciated. Thanks

2573. Re: [DAWG-HSMM] BEFW11S4

Yahoo group: DAWG-HSMM
Date: 2012-07-23 20:50:14 UTC
From: Rusty Haddock
Topic: 2572 Message: 2573

chiefsfan2 wrote:
>I am starting to get into HSMM and I have a BEFW11S4 Linksys router to play
>with. I read on another email that this unit could be used for HSMM to
>access mesh but could not act as a main node(rpt) in a mesh system. I looked
>at HSMM-MESH.org for firm ware to this unit but could not find any. Any help
>would be appreciated. Thanks

The BEFW11S4 is an 802.11b-only wireless router and is rather old.
HSMM-MESH firmware does not support this model from Linksys and thusly
it can not be a node on the mesh. Even a base configuration of OpenWRT
can not run on this 'beast' due to the lack of FLASH memory and RAM.

This router COULD be used to provide wireless (albiet 802.11b) to a mesh
when used in conjunction with a pre-existing WRT54 running the HSMM-MESH
firmware but that's about all. I say this because the usual access to
an HSMM-MESH is done via the LAN ports on a mesh node, not wirelessly.
By plugging in a wireless router into a node's LAN port and having it
operate on a different WiFi channel, you have wireless access to the mesh.

Finding a hardware version 1 through 4 of a WRT54G or WRT54GS or any
version of the WRT54GL will be your best bet if you want to get started
with HSMM-MESH.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2574. Digital Tuesday 1, 8/7/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-08-04 00:00:53 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2574 Message: 2574

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 1
Tuesday August 7, 2012
7:00 pm - 8:30 pm
Location: 299 Connor Ln, Lucas TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2575. Re: [DAWG-HSMM] Digital Tuesday 1, 8/7/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-08-06 18:30:59 UTC
From: Rusty Haddock
Topic: 2574 Message: 2575

Well, what have YOU done during your July vacation from Digital Tuesday???

Per a request or two, I'm working on getting 'APRX' to run on one of my '54Gs. APRX is a small program that works like a listen-only i-gate for APRS. Aside from the obvious software and getting it configured, you'll need at least a 2m receiver (with antenna), TNC, and an RS232-to-TTL serial converter. TNC's using USB won't be particularly useful unless you've done the USB mod to your WRT54G.

If I can actually get packets passed from off the air to aprs.fi I'll bring my gear to show you how to hook it up. It really shouldn't be terribly difficult ESPECIALLY for someone with a ham license, extra class included! :-)

A couple of other items to make plans about:

o Preparations for the Plano Balloon Fest scheduled for
Sept. 21-23.
o Moving our meetings to another location, possibly the
Sci-Tech Center in Frisco or a McKinney firehouse
community room. Other suggestions?
o Changing to a schedule of monthly meetings.

So, bring your summer projects, questions, ideas and suggestions as we return to Digital Tuesday, tomorrow night, August 7th.

Same Bat-Time: 7:00pm

Same Bat-Location: 299 Connor Ln, Lucas, TX
Come down the driveway, through the back gate, and around back
to the pool house.

Bat-Map: http://tinyurl.com/3pw5fvq

Bat-Repeater: Talk-in will be on the Plano repeater, 147.180+ PL107.2

See you there!

-Rusty-

P.S. If you need some Belkin power supplies, email me DIRECTLY so I can get some cleaned up and charged for sale.
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2576. Re: [DAWG-HSMM] Digital Tuesday 1, 8/7/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-08-08 21:20:13 UTC
From: Rusty Haddock
Topic: 2574 Message: 2576

OK, an update from last night for those not in attendance:

1) I was able to get APRX was working on the WRT54G and it passed a fair number of received APRS packets upto the APRS Server in Finland. Alas, this didn't last all night. This may be a configuration issue on my part, possibly I should upgrade to a newer version. Clearly, I have a non-hardware issue or two having to do with the serial port on the WRT54G. I'll continue to tinker with this and if and when I get something going that I feel is solid enough for the masses I'll package it up for our uses and knock out a neat and tidy set of installation instructions. Stay tuned but it won't be coming real soon.

BTW, the TTL-to-RS-232 conversion board I'm using came from Sparkfun.com as a kit. No surface mount -- just a couple of transistors, caps, diodes, resistors, and DB-9 board mount connector. I've personally dealt with them a number of times with good results and they are just two or three days away via UPS Ground, up in Boulder, Colorado. Part number is PRT-00133 and runs under US$7 for 1 to 10 units.
https://www.sparkfun.com/products/133

Anyone else needing a portable APRS I-Gate, say for an event, where a local I-Gate isn't available or in good range?

2) We decided that Digital Tuesday will be cut back to monthly meetings. That'll take a load off of myself for talks and other things to chat about. :-) The actual schedule is still up in the air about which Tuesday we will stick to, first or third, but we will definitely **NOT** be having a second meeting in the month of August.

We have had some suggestions from folks that attend Dallas ARC meetings that we move from the first Tuesday as that is their meeting nights. Second Tuesday is out because that's McKinney's meeting night and a good portion of DigiTuesday attendees are members there as well. Any suggestions?

KD5OUG, would you please delete the second monthly meeting notices on Yahoo?? We'll work on a new schedule.

3) Our next meeting will be held SATURDAY, September 8th at 9am and we'll be meeting in or near the parking lot for the "Oak Point Park and Nature Preserve" off E. Spring Creek Pkwy, across from the Collin College Sprink Creek campus. The location should be near the place the operations trailer was parked at last year's Plano Balloon Fest. More details and maps in a few weeks.

This meeting will be held to facilitate planning and setup for the 2012 Plano Balloon Fest later in September so please bring the equipment you can loan or use for the Fest.

4) We're also going to look for another place to meet. This is due to Kip's new job requiring him to travel quite a bit. While we have been, and continue to be, welcome to use his in-laws' pool house for our meetings, it is felt that it would be best to have another place to meet, particularly when Kip is out of town on travel during meeting night and this could be happening fairly often. Lucas FD is out because of their meetings on Tuesday nights.

We'll be investigating the possibility of meeting at the main firehouse in Allen (this seems to be relatively central to attending members). I can also secure a community room at any of the McKinney firehouses that have one. Any suggestions that don't cost an arm and leg? Internet access would be nice but not always essential. This is not an immediate need since we won't be holding another meeting this month and September's meeting will be near the Balloon Fest site. Still,

See you next month... but feel free to continue bringing up most anythging HSMM-MESH related on this mailing list.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2577. Digital Tuesday 2, 8/21/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-08-18 00:00:55 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2577 Message: 2577

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday August 21, 2012
7:00 pm - 8:30 pm
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2578. Re: [DAWG-HSMM] Digital Tuesday 2, 8/21/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-08-18 03:38:53 UTC
From: Rusty Haddock
Topic: 2577 Message: 2578

DAWG-HSMM@yahoogroups.com wrote:
>Reminder from: DAWG-HSMM Yahoo! Group
> http://groups.yahoo.com/group/DAWG-HSMM/cal
>
>Digital Tuesday 2
>Tuesday August 21, 2012
>7:00 pm - 8:30 pm
>Location: 299 Connor Ln, Lucas, TX

See my last message (go to groups.yahoo.com/group/DAWG-HSMM if you have to). We're going to a single meeting per month schedule and next Tuesday's meeting has been cancelled.

Our next meeting will be Saturday, September 8th and it will be near the location for the Plano Balloon Fest. More details in September.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2579. Digital Tuesday 2, 8/21/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-08-21 00:00:54 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2577 Message: 2579

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Digital Tuesday 2
Tuesday August 21, 2012
7:00 pm - 8:30 pm
Location: 299 Connor Ln, Lucas, TX

Notes:
299 Connor Ln, Lucas, TX
Follow the driveway to the back gate and to the pool house.
Talk-in 147.18+ PL 107.2

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2580. Re: [DAWG-HSMM] Digital Tuesday 2, 8/21/2012, 7:00 pm

Yahoo group: DAWG-HSMM
Date: 2012-08-21 01:00:24 UTC
From: Rusty Haddock
Topic: 2577 Message: 2580

```
DAWG-HSMM@yahoogroups.com wrote:
>Reminder from: DAWG-HSMM Yahoo! Group
> http://groups.yahoo.com/group/DAWG-HSMM/cal
>
>Digital Tuesday 2
>Tuesday August 21, 2012
>7:00 pm - 8:30 pm
>Location: 299 Connor Ln, Lucas, TX

Apparently, Doug/KD5OUG, is still offline so... no meeting tomorrow the 21st.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2581. Re: [DAWG-HSMM] Digital Tuesday 2, 8/21/2012, - Canceled

Yahoo group: DAWG-HSMM
Date: 2012-08-21 01:51:33 UTC
From: Kilgore
Topic: 2577 Message: 2581

Rusty - I think the repeating calendar event for Digital Tuesday has
been canceled.

Let me know about the Sept meeting and I will add a event to the calendar.

Doug KD5OUG

On 8/20/2012 8:00 PM, Rusty Haddock wrote:
> DAWG-HSMM@yahoogroups.com wrote:
> >Reminder from: DAWG-HSMM Yahoo! Group
> > http://groups.yahoo.com/group/DAWG-HSMM/cal
> >
> >Digital Tuesday 2
> >Tuesday August 21, 2012
> >7:00 pm - 8:30 pm
> >Location: 299 Connor Ln, Lucas, TX
>
> Apparently, Doug/KD5OUG, is still offline so... no meeting tomorrow the 21st.
>

2582. TAPR Announces DCC (Digital Communication Conference) Technical & Introductory Sessions Schedule, Banquet Speaker/Topic and Sunday Seminar Speaker/Topic

Yahoo group: DAWG-HSMM
Date: 2012-08-27 02:01:11 UTC
From: Mark Thompson
Topic: 2582 Message: 2582

```
TAPR Announces DCC (Digital Communication Conference)
Technical & Introductory Sessions Schedule,
Banquet Speaker/Topic and
Sunday Seminar Speaker/Topic

ARRL/TAPR DCC, Atlanta, September 21 - 23
www.tapr.org/dcc

Sheraton Gateway Hotel Atlanta Airport
 1900 Sullivan Road
 Atlanta, GA 30337

Technical / Introductory Sessions Schedule
http://www.tapr.org/pdf/DCC_2012_Schedule.pdf

Technical Sessions
Friday - Saturday

Introductory Sessions
Saturday

Saturday Night Banquet Speaker & Topic
http://www.tapr.org/dcc#banquet

DCC Saturday Night Banquet Speaker
will be Bdale Garbee, KB0G
talking about the "Sharing the Joy of Making"

Sunday Morning Seminar Speaker & Topic
http://www.tapr.org/dcc#seminar

DCC Sunday Morning Seminar will be a hands-on tutorial
using Gnuradio  to design and implement software defined radios on your laptop
presented by Tom Rondeau, KB3UKZ, the leader of the Gnuradio project.
```

2583. September 8th meeting/activity

Yahoo group: DAWG-HSMM
Date: 2012-09-04 21:32:54 UTC
From: Rusty Haddock
Topic: 2583 Message: 2583

OK folks, September 8th, Saturday morning at 9am, will be our next meeting of "Digital Tuesday". The activity will be to place our routers around the PBF ground in order to provide alternate paths should the main link to church go down or get blocked. Consider this a dress rehearsal for the PBF. How we do this will depend on the amount of gear that will be available on September 21-23.

Please bring your laptop and any other gear you will need to deploy your node. I will bring one, possibly two, tents and at least one small table. Pleae bring your own chairs.

Two things I need from you folks:

1) An email with your commitment of showing up on Saturday morning. If I receive none then I will cancel the exercise because it costs me a bit of gasoline to travel down to Plano from Van Alstyne and back. I really don't want to waste such a precious resource if I can't get anyone to commit to the exercise. Current Wx forecast is for a high of 88?F on Saturday so it should be cool enough especially in the AM. I will need email or phone calls by Friday at noon, please.

2) We will also need commitments for equipment for the Balloon Fest on Sept 21-23. Router and power supply/battery should be within some sort of weather tight enclosure should we get precipitation like we did last year. Unlike showing up on Saturday morning I can be more relaxed on the commitment but... what's the sense in doing this activity with more equipment than we'll have available for the event???

Please let me know if you will show up on Saturday morning. The location will be the southeast-most parking lot of the Oak Point Ampitheater, across Spring Creek Pkwy from the Collin County Community College. Map centered on meeting location is here: http://goo.gl/maps/YzlPi Talk-in will be on the PARK 2m repeater, 147.180+ PL 107.2.

And if I haven't repeated this enough, there will be NO DigiTuesday meeting tonight.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2584. Re: [DAWG-HSMM] September 8th meeting/activity

Yahoo group: DAWG-HSMM
Date: 2012-09-05 14:09:02 UTC
From: Jimmy Dominguez
Topic: 2583 Message: 2584

Rusty,

I will be otherwise engaged {JDRF} Saturday morning.

Jimmy

On Tue, Sep 4, 2012 at 4:32 PM, Rusty Haddock <rusty@...>wrote:

> **
>
>
> OK folks, September 8th, Saturday morning at 9am, will be our next meeting
> of "Digital Tuesday". The activity will be to place our routers around
> the PBF ground in order to provide alternate paths should the main link
> to church go down or get blocked. Consider this a dress rehearsal for
> the PBF. How we do this will depend on the amount of gear that will be
> available on September 21-23.
>
> Please bring your laptop and any other gear you will need to deploy
> your node. I will bring one, possibly two, tents and at least one
> small table. Pleae bring your own chairs.
>
> Two things I need from you folks:
>
> 1) An email with your commitment of showing up on Saturday morning.
> If I receive none then I will cancel the exercise because it costs
> me a bit of gasoline to travel down to Plano from Van Alstyne
> and back. I really don't want to waste such a precious resource
> if I can't get anyone to commit to the exercise. Current Wx
> forecast is for a high of 88°F on Saturday so it should be cool
> enough especially in the AM. I will need email or phone calls
> by Friday at noon, please.
>
> 2) We will also need commitments for equipment for the Balloon Fest
> on Sept 21-23. Router and power supply/battery should be within
> some sort of weather tight enclosure should we get precipitation
> like we did last year. Unlike showing up on Saturday morning I
> can be more relaxed on the commitment but... what's the sense in
> doing this activity with more equipment than we'll have available
> for the event???
>
> Please let me know if you will show up on Saturday morning. The location
> will be the southeast-most parking lot of the Oak Point Ampitheater, across
> Spring Creek Pkwy from the Collin County Community College. Map centered
> on meeting location is here: http://goo.gl/maps/YzlPi Talk-in will be on
> the PARK 2m repeater, 147.180+ PL 107.2.

```
>
> And if I haven't repeated this enough, there will be NO DigiTuesday
> meeting tonight.
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | ( -< O o Van Alstyne (TX) Metropolitan Area
> |/\__V__/ Math illiteracy affects 7 out of 5 people!
>
>
```

2585. Plano BalloonFest Training, 9/8/2012, 9:00 am

Yahoo group: DAWG-HSMM
Date: 2012-09-06 14:01:03 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2585 Message: 2585

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Plano BalloonFest Training
Saturday September 8, 2012
9:00 am - 12:00 pm
Location: Map: http://goo.gl/maps/dULFu

Notes:
Time: SATURDAY, September 8th @ 9am
Place: east-most parking lot of the
Oak Point Ampitheater on
East Spring Creek Pkwy, across from the
Collin County Comm. College.
Map: http://goo.gl/maps/dULFu

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2586. Plano BalloonFest Training, 9/8/2012, 9:00 am

Yahoo group: DAWG-HSMM
Date: 2012-09-07 14:00:54 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 2585 Message: 2586

Reminder from: DAWG-HSMM Yahoo! Group
http://groups.yahoo.com/group/DAWG-HSMM/cal

Plano BalloonFest Training
Saturday September 8, 2012
9:00 am - 12:00 pm
Location: Map: http://goo.gl/maps/dULFu

Notes:
Time: SATURDAY, September 8th @ 9am
Place: east-most parking lot of the
Oak Point Ampitheater on
East Spring Creek Pkwy, across from the
Collin County Comm. College.
Map: http://goo.gl/maps/dULFu

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2587. Re: [DAWG-HSMM] Plano BalloonFest Training, 9/8/2012, 9:00 am

Yahoo group: DAWG-HSMM
Date: 2012-09-07 17:56:28 UTC
From: Rusty Haddock
Topic: 2585 Message: 2587

```
DAWG-HSMM@yahoogroups.com wrote:
>Reminder from: DAWG-HSMM Yahoo! Group
> http://groups.yahoo.com/group/DAWG-HSMM/cal
>
>Plano BalloonFest Training
>Saturday September 8, 2012
>9:00 am - 12:00 pm

has been CANCELLED. Since no commitments to show up were received for
this event, I'm not going to waste my time and gasoline to drive the 30+
miles each way to see if anyone else shows up.

For those that couldn't make this event but volunteered equipment for the
Balloon Fest, I offer a hearty "Thank You". Kip and I will see what we
can do with your equipment when we do initial setup on the 19th or 20th.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2588. Re: APPROVE -- gladysspaulding wants to join DAWG-HSMM

Yahoo group: DAWG-HSMM
Date: 2012-09-20 02:49:41 UTC
From: Kilgore
Topic: 2588 Message: 2588

On 9/19/2012 9:00 PM, Yahoo! Groups Notification wrote:
> Hello,
>
> The following person would like to join the DAWG-HSMM group:
> Email address: gladysspaulding <w0uo@...>
>
> Comment from user:
> I am W0UO, one of more than a half dozen in Parker County looking to
> establish an HSMM MESH network. We have routers programmed, but need
> some advice on antennas and other issues.
>

2589. Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2012-10-09 18:29:31 UTC
From: John - N5TIM
Topic: 2037 Message: 2589

Well ... it looks like another Tuesday with withdrawal pains. Any luck on an alternate meeting location?

John - N5TIM

2590. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2012-10-10 20:18:06 UTC
From: Rusty Haddock
Topic: 2037 Message: 2590

John - N5TIM wrote:
>Well ... it looks like another Tuesday with withdrawal pains.
>Any luck on an alternate meeting location?

Sorry for the withdrawl pains John. No, I don't get down by/through
Allen much to check on Firehouse #1.

David Spratt and I were talking at the McKinney ARC meeting last night
and we both felt that a meeting next Tuesday would be good. This will
be more of a planning and social gathering although I'm more than willing
to answer questions as best I can. I'm not planning on bringing a laptop
nor a node. Beginners are welcome to join in as well.

What we'd like to do is decide how Digital Tuesday continues. Certainly
we're down to once a month but still in search of an alternate location,
maybe two.

We'd also like to plan an outing or two, before it gets too chilly,
to replicate and explore solutions to the problems we had at the Plano
Balloon Fest (PBF) last month. If we ever deploy again to an event or
an emergency situation to provide networking service to those serving,
and this was the main reason for creating HSMM-MESH, then we need to learn
how to deal with situations like what we tried to deal with at the PBF.

For next week's meeting, let's plan on meeting at Scotty P's Hamburgers
in Allen next Tuesday (3rd Tuesday) at the usual time, 7pm. If needed,
they have a back room, but we can always pull together a few tables
if enough people show up. Scotty P's is in the northwest corner of
McDermott and US75 in Allen. Look for the Hobby Lobby and go east along
the shopping center from there.

Talk-in on the Plano ARK repeater, 147.180+ PL/107.2.
See you there!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2591. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2012-10-15 23:04:16 UTC
From: Rusty Haddock
Topic: 2037 Message: 2591

Just a reminder, Tuesday October 16th, 7pm @ Scotty P's Hamburgers in
Allen, TX. The address is 109 Central Expressway #501, between Hobby
Lobby and Stacy's Furniture.

>What we'd like to do is decide how Digital Tuesday continues. Certainly
>we're down to once a month but still in search of an alternate location,
>maybe two.
>
>We'd also like to plan an outing or two, before it gets too chilly,
>to replicate and explore solutions to the problems we had at the Plano
>Balloon Fest (PBF) last month. If we ever deploy again to an event or
>an emergency situation to provide networking service to those serving,
>and this was the main reason for creating HSMM-MESH, then we need to learn
>how to deal with situations like what we tried to deal with at the PBF.
>
>For next week's meeting, let's plan on meeting at Scotty P's Hamburgers
>in Allen next Tuesday (3rd Tuesday) at the usual time, 7pm. If needed,
>they have a back room, but we can always pull together a few tables
>if enough people show up. Scotty P's is in the northwest corner of
>McDermott and US75 in Allen. Look for the Hobby Lobby and go east along
>the shopping center from there.
>
>Talk-in on the Plano ARK repeater, 147.180+ PL/107.2.
>See you there!

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2592. New Mesh Nodes

Yahoo group: DAWG-HSMM
Date: 2012-11-26 20:57:54 UTC
From: ims8002004
Topic: 2592 Message: 2592

I haven't posted here before, so I thought I would let everyone in the group know that I just placed three HSMM-MESH nodes up on the air. They are currently running on the stock WRT54GS antenna's, but will soon be upgraded to weatherproof boxes on the roof of each location and higher gain antenna's. The locations are noted on the http://www.hsmm-mesh.org google map for reference. If there is anyone that may be within range of these sites let me know and I can try to get an antenna pointed your way in hopes of establishing a link. I am limited on antenna selection on the KC5DFC-75 node at this time (HOA) but the others (KC5DFC-76 and KC5DFC-77) could be set up with any reasonable type radiator. I have a 24dB magnesium parabolic on hand, two different gain Rootenna's, along with a few smaller omni's. I can achieve @22' AGL at these sites at this point in time. I would like to get the three nodes meshed up but preliminary investigation of the terrain between them with Radio Mobile doesn't yield very promising results. If there are any meshers in South Wylie/Sachse/North Rowlett there might be a chance...

Thanks,
Ian Stubbs
KC5DFC

2593. Another DigiTuesday meeting?

Yahoo group: DAWG-HSMM
Date: 2012-11-29 04:12:08 UTC
From: Rusty Haddock
Topic: 2593 Message: 2593

If I can get a room at the Grayson County Community College campus in
Van Alstyne, maybe we can get the Sherman/Denison folks to join us.
Would y'all like to try things up in my neck of the woods for a change?
I'm thinking about next Tuesday, December 4th, but feel free to suggest
another date. What say ye?

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2594. Re: [DAWG-HSMM] Another DigiTuesday meeting?

Yahoo group: DAWG-HSMM
Date: 2012-11-29 04:18:27 UTC
From: Kilgore
Topic: 2593 Message: 2594

I am unable to attend on Dec. 4.

Doug KD5OUG

On 11/28/2012 10:12 PM, Rusty Haddock wrote:
> If I can get a room at the Grayson County Community College campus in
> Van Alstyne, maybe we can get the Sherman/Denison folks to join us.
> Would y'all like to try things up in my neck of the woods for a change?
> I'm thinking about next Tuesday, December 4th, but feel free to suggest
> another date. What say ye?
>
> -Rusty-

2595. Re: [DAWG-HSMM] Another DigiTuesday meeting?

Yahoo group: DAWG-HSMM
Date: 2012-11-29 15:16:08 UTC
From: Jimmy Dominguez
Topic: 2593 Message: 2595

Only a part-time attendee, but I would give it a shot !

Jimmy
ke5peq

On Wed, Nov 28, 2012 at 10:12 PM, Rusty Haddock <rusty@...>wrote:

> **
>
>
> If I can get a room at the Grayson County Community College campus in
> Van Alstyne, maybe we can get the Sherman/Denison folks to join us.
> Would y'all like to try things up in my neck of the woods for a change?
> I'm thinking about next Tuesday, December 4th, but feel free to suggest
> another date. What say ye?
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>
>

2596. Re: [DAWG-HSMM] Another DigiTuesday meeting?

Yahoo group: DAWG-HSMM
Date: 2012-11-29 16:35:35 UTC
From: Noah Chalker
Topic: 2593 Message: 2596

I would go but it's an hour away on a school night. I got my router set up!

From,
Noah Chalker ke5vql

On Nov 29, 2012, at 9:16, Jimmy Dominguez <ke5peq@...> wrote:

> Only a part-time attendee, but I would give it a shot !
>
> Jimmy
> ke5peq
>
>
> On Wed, Nov 28, 2012 at 10:12 PM, Rusty Haddock <rusty@...> wrote:
>>
>> If I can get a room at the Grayson County Community College campus in
>> Van Alstyne, maybe we can get the Sherman/Denison folks to join us.
>> Would y'all like to try things up in my neck of the woods for a change?
>> I'm thinking about next Tuesday, December 4th, but feel free to suggest
>> another date. What say ye?
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>> -Rusty-
>> --
>> _____ Rusty Haddock <=> AE5AE
>> |\/ o \ o Way out yonder in the
>> | (-< O o Van Alstyne (TX) Metropolitan Area
>> |/__V__/ Math illiteracy affects 7 out of 5 people!
>
>

2597. Re: [DAWG-HSMM] Another DigiTuesday meeting?

Yahoo group: DAWG-HSMM
Date: 2012-11-29 16:45:03 UTC
From: Michael Riedel
Topic: 2593 Message: 2597

I cannot make it this Tuesday due to a funeral.

Mike, KE5VCT

From: Rusty Haddock
Sent: Wednesday, November 28, 2012 10:12 PM
To: DAWG-HSMM@yahoogroups.com
Subject: [DAWG-HSMM] Another DigiTuesday meeting?

If I can get a room at the Grayson County Community College campus in
Van Alstyne, maybe we can get the Sherman/Denison folks to join us.
Would y'all like to try things up in my neck of the woods for a change?
I'm thinking about next Tuesday, December 4th, but feel free to suggest
another date. What say ye?

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2598. Hardware selection

Yahoo group: DAWG-HSMM
Date: 2012-11-29 16:58:24 UTC
From: Michael Griego
Topic: 2598 Message: 2598

Hey everyone. I'm Mike (KE5CVQ). I'm new to this group, so I thought I'd introduce myself first… Been licensed since about 2004, but I had been out of the game until recently.

Anyway, I was curious if most of the people here were still using the WRT54GL as the hardware platform of choice for their HSMM mesh nodes. From what I can tell, they look like they're still the best supported, and I see Newegg still carries them for $49.99…

Also, is there a current topology map anywhere for the nodes around the North Dallas/Far North Dallas area?

--Mike - KE5CVQ

2599. Re: [DAWG-HSMM] Hardware selection

Yahoo group: DAWG-HSMM
Date: 2012-11-29 17:12:12 UTC
From: Jimmy Dominguez
Topic: 2598 Message: 2599

Welcome Mike ! The wrt54g is the most common supported hardware at this time. You can go to: http://hsmm-mesh.org/section-blog/37-hardware-faqs/101-supported-hardware.htmlto get more information on the WRT54 hardware.

There are better deals out there as far as cost; you just need to be aware of version information on the routers you purchase. Check Ebay or Amazon, but I normally won't by unless it is below or very close to $25. Of course it depends on your 'expendable' funds !

I'm sure others [read more qualified and active] will respond to your email.

Good luck.
Jimmy
ke5peq

On Thu, Nov 29, 2012 at 10:58 AM, Michael Griego <mgriego@...> wrote:

> Hey everyone. I'm Mike (KE5CVQ). I'm new to this group, so I thought I'd
> introduce myself first… Been licensed since about 2004, but I had been out
> of the game until recently.
>
> Anyway, I was curious if most of the people here were still using the
> WRT54GL as the hardware platform of choice for their HSMM mesh nodes. From
> what I can tell, they look like they're still the best supported, and I see
> Newegg still carries them for $49.99…
>
> Also, is there a current topology map anywhere for the nodes around the
> North Dallas/Far North Dallas area?
>
> --Mike - KE5CVQ
>
> ------------------------------------
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> Yahoo! Groups Links
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2600. Re: [DAWG-HSMM] Hardware selection

Yahoo group: DAWG-HSMM
Date: 2012-11-29 19:59:25 UTC
From: Michael Griego
Topic: 2598 Message: 2600

Thanks! I did see a couple of used 54GLs on Amazon for around $25, but all the new ones seem to be at least $49. I'm very keen on getting a GL, because, if memory serves, they usually have a bit more RAM and flash storage than the base 54G's unless you get one of the really old models (besides being fully compatible).

--Mike

On Nov 29, 2012, at 11:12 AM, Jimmy Dominguez wrote:

>
>
> Welcome Mike ! The wrt54g is the most common supported hardware at this time. You can go to: http://hsmm-mesh.org/section-blog/37-hardware-faqs/101-supported-hardware.html to get more information on the WRT54 hardware.
>
> There are better deals out there as far as cost; you just need to be aware of version information on the routers you purchase. Check Ebay or Amazon, but I normally won't by unless it is below or very close to $25. Of course it depends on your 'expendable' funds !
>
> I'm sure others [read more qualified and active] will respond to your email.
>
> Good luck.
> Jimmy
> ke5peq
>
>
> On Thu, Nov 29, 2012 at 10:58 AM, Michael Griego <mgriego@...> wrote:
> Hey everyone. I'm Mike (KE5CVQ). I'm new to this group, so I thought I'd introduce myself first… Been licensed since about 2004, but I had been out of the game until recently.
>
> Anyway, I was curious if most of the people here were still using the WRT54GL as the hardware platform of choice for their HSMM mesh nodes. From what I can tell, they look like they're still the best supported, and I see Newegg still carries them for $49.99…
>
> Also, is there a current topology map anywhere for the nodes around the North Dallas/Far North Dallas area?
>
> --Mike - KE5CVQ
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> Yahoo! Groups Links
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2601. Re: [DAWG-HSMM] Hardware selection

Yahoo group: DAWG-HSMM
Date: 2012-11-29 20:09:55 UTC
From: Noah Chalker
Topic: 2598 Message: 2601

I recommend asking friends for the routers. I put it out on Facebook and got a router!

From,
Noah Chalker ke5vql

On Nov 29, 2012, at 13:59, Michael Griego <mgriego@...> wrote:

> Thanks! I did see a couple of used 54GLs on Amazon for around $25, but all the new ones seem to be at least $49. I'm very keen on getting a GL, because, if memory serves, they usually have a bit more RAM and flash storage than the base 54G's unless you get one of the really old models (besides being fully compatible).
>
>
> --Mike
>
> On Nov 29, 2012, at 11:12 AM, Jimmy Dominguez wrote:
>
>>
>>
>> Welcome Mike ! The wrt54g is the most common supported hardware at this time. You can go to: http://hsmm-mesh.org/section-blog/37-hardware-faqs/101-supported-hardware.html to get more information on the WRT54 hardware.
>>
>> There are better deals out there as far as cost; you just need to be aware of version information on the routers you purchase. Check Ebay or Amazon, but I normally won't by unless it is below or very close to $25. Of course it depends on your 'expendable' funds !
>>
>> I'm sure others [read more qualified and active] will respond to your email.
>>
>> Good luck.
>> Jimmy
>> ke5peq
>>
>>
>> On Thu, Nov 29, 2012 at 10:58 AM, Michael Griego <mgriego@...> wrote:
>>> Hey everyone. I'm Mike (KE5CVQ). I'm new to this group, so I thought I'd introduce myself first… Been licensed since about 2004, but I had been out of the game until recently.
>>>
>>> Anyway, I was curious if most of the people here were still using the WRT54GL as the hardware platform of choice for their HSMM mesh nodes. From what I can tell, they look like they're still the best supported, and I see Newegg still carries them for $49.99…
>>>
>>> Also, is there a current topology map anywhere for the nodes around the North Dallas/Far North Dallas area?
>>>

```
>>> --Mike - KE5CVQ
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
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2602. Re: [DAWG-HSMM] Hardware selection

Yahoo group: DAWG-HSMM
Date: 2012-11-29 20:20:49 UTC
From: Rusty Haddock
Topic: 2598 Message: 2602

Michael Griego wrote:

>Thanks! I did see a couple of used 54GLs on Amazon for around $25,
>but all the new ones seem to be at least $49. I'm very keen on
>getting a GL, because, if memory serves, they usually have a bit
>more RAM and flash storage than the base 54G's unless you get one
>of the really old models (besides being fully compatible).

Actually, that's not quite true. If you want models with more flash
and RAM you want to look for either the GS models, version 1 thru 3,
or a WRT54G-TM (for T-Mobile) as these units have the largest memories.
The GL is nothing more than a relabeled WRT54G, version 4, and has the
standard 16Meg of RAM w/ 4 Meg of Flash.

Print this PDF file and keep it handy when you're shopping next time!

http://www.hsmm-mesh.org/images/hsmm_docs/WRT54Shop.pdf

Something else to keep in mind is that the newer versions of each
model generally require less power to operate than its predecessor.
Keep this in mind if you plan to run off alternate energy sources
such as batteries and solar/wind/what have you.

And BTW, WELCOME to the group!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2603. Re: [DAWG-HSMM] Hardware selection

Yahoo group: DAWG-HSMM
Date: 2012-11-29 20:30:12 UTC
From: Jimmy Dominguez
Topic: 2598 Message: 2603

Old ones work just as well as the new ones.

Just because it is so very important, I'll repeat myself. Only certain versions are compatible with the HSMM firmware, so be very cognizant of that. I say that from personal experience.

Good Luck !
Jimmy

On Thu, Nov 29, 2012 at 1:59 PM, Michael Griego <mgriego@...> wrote:

> **
>
>
> Thanks! I did see a couple of used 54GLs on Amazon for around $25, but
> all the new ones seem to be at least $49. I'm very keen on getting a GL,
> because, if memory serves, they usually have a bit more RAM and flash
> storage than the base 54G's unless you get one of the really old models
> (besides being fully compatible).
>
> --Mike
>
> On Nov 29, 2012, at 11:12 AM, Jimmy Dominguez wrote:
>
>
>
> Welcome Mike ! The wrt54g is the most common supported hardware at this
> time. You can go to:
> http://hsmm-mesh.org/section-blog/37-hardware-faqs/101-supported-hardware.html
> to get more information on the WRT54 hardware.
>
> There are better deals out there as far as cost; you just need to be aware
> of version information on the routers you purchase. Check Ebay or Amazon,
> but I normally won't by unless it is below or very close to $25. Of course
> it depends on your 'expendable' funds !
>
> I'm sure others [read more qualified and active] will respond to your
> email.
>
> Good luck.
> Jimmy
> ke5peq
>
>
> On Thu, Nov 29, 2012 at 10:58 AM, Michael Griego <mgriego@...>
> wrote:

>
>> Hey everyone. I'm Mike (KE5CVQ). I'm new to this group, so I thought
>> I'd introduce myself first… Been licensed since about 2004, but I had been
>> out of the game until recently.
>>
>> Anyway, I was curious if most of the people here were still using the
>> WRT54GL as the hardware platform of choice for their HSMM mesh nodes. From
>> what I can tell, they look like they're still the best supported, and I see
>> Newegg still carries them for $49.99…
>>
>> Also, is there a current topology map anywhere for the nodes around the
>> North Dallas/Far North Dallas area?
>>
>> --Mike - KE5CVQ
>>
>> ---
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>> Yahoo! Groups Links
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2604. Re: [DAWG-HSMM] Hardware selection

Yahoo group: DAWG-HSMM
Date: 2012-11-29 21:21:42 UTC
From: Michael Griego
Topic: 2598 Message: 2604

Yeah, I very much understand that. I've worked with DD-WRT before in other capacities (I'm actually a network engineer by day). You guys were right, though, I was confusing the S with the L. I think I just have the L stuck in my head since it was the only new/readily available model that retained good support for third party firmware.

Back to my other question, though. Is there a standing HSMM mesh network in the Far North Dallas area, or does the group tend to just create adhoc meshes for specific functions? If there is a standing mesh, is there a network topology graph anywhere?

--Mike - KE5CVQ

On Nov 29, 2012, at 2:30 PM, Jimmy Dominguez wrote:

>
>
> Old ones work just as well as the new ones.
>
> Just because it is so very important, I'll repeat myself. Only certain versions are compatible with the HSMM firmware, so be verycognizant of that. I say that from personal experience.
>
> Good Luck !
> Jimmy
>
>
> On Thu, Nov 29, 2012 at 1:59 PM, Michael Griego <mgriego@...> wrote:
>
> Thanks! I did see a couple of used 54GLs on Amazon for around $25, but all the new ones seem to be at least $49. I'm very keen on getting a GL, because, if memory serves, they usually have a bit more RAM and flash storage than the base 54G's unless you get one of the really old models (besides being fully compatible).
>
>
> --Mike
>
> On Nov 29, 2012, at 11:12 AM, Jimmy Dominguez wrote:
>
>>
>>
>> Welcome Mike ! The wrt54g is the most common supported hardware at this time. You can go to: http://hsmm-mesh.org/section-blog/37-hardware-faqs/101-supported-hardware.html to get more information on the WRT54 hardware.
>>
>> There are better deals out there as far as cost; you just need to be aware of version information on the routers you purchase. Check Ebay or Amazon, but I normally won't by unless it is below or very close to $25. Of course it depends on your 'expendable' funds !

>>
>> I'm sure others [read more qualified and active] will respond to your email.
>>
>> Good luck.
>> Jimmy
>> ke5peq
>>
>>
>> On Thu, Nov 29, 2012 at 10:58 AM, Michael Griego <mgriego@...> wrote:
>> Hey everyone. I'm Mike (KE5CVQ). I'm new to this group, so I thought I'd introduce myself first… Been licensed since about 2004, but I had been out of the game until recently.
>>
>> Anyway, I was curious if most of the people here were still using the WRT54GL as the hardware platform of choice for their HSMM mesh nodes. From what I can tell, they look like they're still the best supported, and I see Newegg still carries them for $49.99…
>>
>> Also, is there a current topology map anywhere for the nodes around the North Dallas/Far North Dallas area?
>>
>> --Mike - KE5CVQ
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>> Yahoo! Groups Links
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2605. Re: [DAWG-HSMM] Hardware selection

Yahoo group: DAWG-HSMM
Date: 2012-11-29 21:59:11 UTC
From: Rusty Haddock
Topic: 2598 Message: 2605

Michael Griego wrote:
>...
>Back to my other question, though. Is there a standing HSMM mesh
>network in the Far North Dallas area, or does the group tend to just
>create adhoc meshes for specific functions? If there is a standing

Currently we adhoc meshes for specific functions, as you put it so eloquently. :)

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2606. Next meeting, Tuesday December 4th.

Yahoo group: DAWG-HSMM
Date: 2012-11-30 19:29:33 UTC
From: Rusty Haddock
Topic: 2606 Message: 2606

OK, we're set for a Digital Tuesday gathering at the Van Alstyne campus of Grayson college at 7pm. Many thanks to Mr Wade Graves for making a room available to us!

As you can see below, Grayson co. ARES members have been invited so I'll probably have a little introduction for them. If you're new to HSMM-MESH then this would be a good time to jump into the fray and join us. If the members of the Collin Co. ARES/RACES/whatever would like to participate as well, they'd be welcome to join us (*IF* they can behave themselves :-).

Directions: Go north on US75 to Exit 51 (think "Area 51") to FM 121 or Van Alstyne Pkwy. At the traffic light go west (left), under US75, and continue past the Sonic. The main entrance to Grayson College is just less than one half mile west of US75 and on your left. It should be kinda obvious since there's nothing else around it and there's a large, divided entrance. The main entrance to the building is straight ahead.

Plans are for an introduction to HSMM-MESH, discussion of activities, show and tell if you got it, and general questions and answers.

See you there!

-Rusty-

----- Forwarded message from Wade Graves <wade.graves@...> -----

From: Wade Graves <wade.graves@...>
Subject: ARES training opportunity -- HSMM-MESH meeting in Van Alstyne next Tuesday

Good day everyone!

With our recent discussions of new technology, here is an opportunity to learn that's really close . . .

Mr. Rusty Haddock, the Collin HSMM-MESH leader/organizer, has asked to use a room at the Grayson College Van Alstyne Campus for a "Digital Tuesday" meeting next Tuesday, December 4th at 7pm. Rusty has invited any Grayson County ARES members who like to attend and ask questions about HSMM-MESH to please come.

I'm planning to be there and I hope y'all can come too. If you can attend, please enter the building through the main entrance and I'll be there to direct you to the correct room.

73
Wade

----- End forwarded message -----

```
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2607. Re: New Mesh Nodes

Yahoo group: DAWG-HSMM
Date: 2012-12-02 23:10:41 UTC
From: Brian
Topic: 2592 Message: 2607

Ian, check your email.

--Brian

2608. Reminder: Next meeting, Tuesday December 4th.

Yahoo group: DAWG-HSMM
Date: 2012-12-03 22:31:28 UTC
From: Rusty Haddock
Topic: 2606 Message: 2608

[Small addition: If you're planning to attend could you please give me
a heads up so we can make adjustments for # of attendees? Thanks!
-Rusty-]

OK, we're set for a Digital Tuesday gathering at the Van Alstyne campus
of Grayson college at 7pm. Many thanks to Mr Wade Graves for making a
room available to us!

As you can see below, Grayson Co. ARES members have been invited so I'll
probably have a little introduction for them. If you're new to HSMM-MESH
then this would be a good time to jump into the fray and join us. If the
members of the Collin Co. ARES/RACES/whatever would like to participate as
well, they'd be welcome to join us (*IF* they can behave themselves :-).

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continue past the Sonic. The main entrance to Grayson College is just
less than one half mile west of US75 and on your left. It should be
kinda obvious since there's nothing else around it and there's a large,
divided entrance. The main entrance to the building is straight ahead.

Plans are for an introduction to HSMM-MESH, discussion of activities,
show and tell if you got it, and general questions and answers.

See you there!

-Rusty-

----- Forwarded message from Wade Graves <wade.graves@...> -----

From: Wade Graves <wade.graves@...>
Subject: ARES training opportunity -- HSMM-MESH meeting in Van Alstyne next Tuesday

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I'm planning to be there and I hope y'all can come too. If you can
attend, please enter the building through the main entrance and I'll be
there to direct you to the correct room.

73
Wade

----- End forwarded message -----

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2609. Re: Reminder: Next meeting, Tuesday December 4th.

Yahoo group: DAWG-HSMM
Date: 2012-12-04 22:32:29 UTC
From: K
Topic: 2606 Message: 2609

I will be there.

Kip

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock <rusty@...> wrote:
>
> [Small addition: If you're planning to attend could you please give me
> a heads up so we can make adjustments for # of attendees? Thanks!
> -Rusty-]
>
>
> OK, we're set for a Digital Tuesday gathering at the Van Alstyne campus
> of Grayson college at 7pm. Many thanks to Mr Wade Graves for making a
> room available to us!
>
> As you can see below, Grayson Co. ARES members have been invited so I'll
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> Directions: Go north on US75 to Exit 51 (think "Area 51") to FM 121 or
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> show and tell if you got it, and general questions and answers.
>
> See you there!
>
> -Rusty-
>
>
> ----- Forwarded message from Wade Graves <wade.graves@...> -----
>
> From: Wade Graves <wade.graves@...>
> Subject: ARES training opportunity -- HSMM-MESH meeting in Van Alstyne next Tuesday
>
> Good day everyone!
>
> With our recent discussions of new technology, here is an opportunity to
> learn that's really close . . .

```
>
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> I'm planning to be there and I hope y'all can come too. If you can
> attend, please enter the building through the main entrance and I'll be
> there to direct you to the correct room.
>
> 73
> Wade
>
> ----- End forwarded message -----
>
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | ( -< O o Van Alstyne (TX) Metropolitan Area
> |/\__V__/ Math illiteracy affects 7 out of 5 people!
>
```

2610. Fwd: [BLT] 18.100 MHz PSK listeners wanted

Yahoo group: DAWG-HSMM
Date: 2012-12-15 03:04:50 UTC
From: Kilgore
Topic: 2610 Message: 2610

```
-------- Original Message --------
Subject: [BLT] 18.100 MHz PSK listeners wanted
Date: Fri, 14 Dec 2012 18:56:18 -0600
From: Thomas Krahn <thomas@...>
To: blt@... <blt@...>

N0D Flight To The End Of The World
Dec. 15th 2012, Covey Trails Airport Richmond TX - 4PM CST (22:00 UTC)

While the APRS network is always ready we'll need to push a little bit
for 17m shortwave listeners.
Please consider listening by yourself and forward it to all mailing
lists, forums and DX clusters of interest.
The PSK31 beacon on the BLT32 balloon will transmit on 18.100 MHz and
shows up at 700..800 Hz on the waterfall when you use USB.
The frequency may shift quite a bit due to temperature, so there is life
left and right of the center frequency. Check the announcements where it
actually is during the flight.
It will transmit packages of 3 positions in a row, then pause for
approximately 140 seconds. Then it starts over.

Here are some example packages so that you know what to expect:

$$N0D,490,060200,29.7252,-95.5078,84,HAB*EF3D
$$N0D,491,060438,29.7252,-95.5078,84,http://w5acm.net*119E
$$N0D,492,060508,29.7252,-95.5078,84,end of world*3671
(140 sec. pause)
$$N0D,500,060542,29.7252,-95.5078,84,HAB*A03C
$$N0D,501,060819,29.7252,-95.5078,84,http://w5acm.net*4513
$$N0D,502,060849,29.7252,-95.5078,84,end of world*0ACA
(140 sec. pause)
etc.

The comma separated columns are:
N0D = callsign
490 = Serial number of the packet. 0,1,2 will be transmitted, 3...9 are
pause.
060200 = 6:02:00 UTC time
29.7252 = latitude in decimals of degrees
-95.5078 = longitude in decimal degrees
84 = altitude in meters(!)
HAB, w5acm.net, end of world.. = comment
*EF3D = checksum

The 3 transmissions in a row give you a chance to tune your receiver and
PSK setup properly. In case you missed the first one, there are still
```

two transmissions left.

Reporting:
Of course you can always send an e-mail with the received strings to thomas@... but the preferred method is to submit the data to a server on the internet. It can be entered manually at http://kt5tk.tkrahn.com/blt32.html (or here: http://habitat.habhub.org/manual_upload/) but it's much easier if you install DOWNLOAD FLDIGI http://ukhas.org.uk/projects:dl-fldigi which automatically submits the position data to a central server (habitat). This is an extension of the famous fldigi software which is optimized and extended for balloon tracking. Please use exactly THIS dl-fldigi software because the original fldigi version cannot automatically send the strings to the server!

Very good instructions for setting up dl-fldigi can be found here:
http://ukhas.org.uk/guides:tracking_guide
http://projecthorus.org/?page_id=336

Note that instead of RTTY we're using PSK31

If everything works the position of the balloon should be displayed on the spacenear.us tracker:
http://spacenear.us/tracker/

It might be interesting if we could also get some data-points up at pskreporter.info
http://pskreporter.info/pskmap.html

Thanks in advance for your support!

Thomas
KT5TK

BLT mailing list
BLT@...
http://lists.stevens.com/mailman/listinfo/blt

2611. Re: HSMM-MESH practical demo? (fwd)

Yahoo group: DAWG-HSMM
Date: 2013-01-14 21:41:10 UTC
From: Rusty Haddock
Topic: 2611 Message: 2611

Hey folks!

Is there anyone in the group that would be willing to help out
and come up to Sherman Muni airport with me a week from tomorrow? This is
the airport just south of downtown Sherman, off SH-11. Myself and the
rest of the gang have been asked to come up, present, and demo to the
Grayson co. ARES folks. They are looking to see how HSMM-MESH can be
a benefit to their ARES comms. I really could use a few more folks.

I was planning to give part of my 'Mesh Applications' talk (from
Cowtown and Hamcom this past year) along with a smattering of Kip's
intro talk for some of the theory. Still, the demonstrations would be
of the most benefit here. I have an IP camera, a TNC to hook to one of
my nodes, and a "lollipop".

Their meeting starts at 7pm although we are scheduled to start
around 7:30pm for about 45-minutes.

Please email me if you can come up and support the cause. We could
carpool from either my house in Van Alstyne or even Grayson Co. College
where our last meeting was held.

Thanks!

-Rusty-

----- Forwarded message from Wade Graves <wade.graves@...> -----

To: "Rusty Haddock/AE5AE" <rusty@...>
From: Wade Graves <wade.graves@...>
Subject: Re: HSMM-MESH practical demo?
Date: Sat, 12 Jan 2013 07:37:10 -0600

Rusty,

Thank you. What this will probably need to be is a sales pitch with some
practical applications demonstrated. The group you will be talking to will
be a mixture of some who attended our joint meeting and many who are not
very technically oriented. The larger group that's not very technically
oriented will dig in IF they see a benefit for our ARES communications.

What we are thinking is a smattering of theory overview and lots of
practical application -- this group needs to see how it can be used in a
situation -- your balloon festival part would appeal to them if you discuss
the benefits of how it worked for your group. If the guys can bring their
kits, set them up, and show how they can feed video and messages to each
other, that will hook the folks and convince them to learn more.

Rick -- any additional thoughts/observations?

Again Rusty, thank you very much for coming and doing the 45 minute presentation.

73
Wade

On Thu, Jan 10, 2013 at 5:59 PM, Rusty Haddock <rusty@...>wrote:

> Wade Graves wrote:
> >Rusty
> >Happy new year!
> >
> >Are you and your team still available for January 22nd for our ARES
> meeting
> >to demo HSMM-MESH and show how it can be used in an area during an
> event?
>
> I s'pose I can make that. I'll see if any of the other "critters" from
> "down south" would like to join in. :-)
>
> I can probably trim down my "Mesh Applications" talk that I'll be giving
> at the Cowtown 'fest the prior Saturday. Still, if you can give me a
> little more input on what the ARES group is looking for or is planning
> to do will be of some help to me.
>
> You can give me a call here at home if you'd like.
>
> -Rusty-
> 903-482-2183
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>

----- End forwarded message -----

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2612. Re: HSMM-MESH practical demo? (fwd)

Yahoo group: DAWG-HSMM
Date: 2013-01-16 01:29:13 UTC
From: David Spratt
Topic: 2611 Message: 2612

Rusty, I can go along - Tuesday 2nd correct? I will bring along a couple of mesh units with camera and IRC, but I don't have any gain antennas if you are thinking of setting up a remote location.

Anyone else is welcome to ride along with me, we can meet at the Allen/Fairview Village Mall at HW75 & Stacey road. We can pick Rusty up on the way.

David

How to Stay Asleep
Researchers have discovered a revolutionary secret to stay asleep
http://thirdpartyoffers.juno.com/TGL3141/50f60282e1e07282541cst01vuc

2613. Re: [DAWG-HSMM] Re: HSMM-MESH practical demo? (fwd)

Yahoo group: DAWG-HSMM
Date: 2013-01-16 07:10:16 UTC
From: Kilgore
Topic: 2611 Message: 2613

What is the date?

D KD5OUG

On 1/14/2013 3:41 PM, Rusty Haddock wrote:
> Hey folks!
>
> Is there anyone in the group that would be willing to help out
> and come up to Sherman Muni airport with me a week from tomorrow? This is
> the airport just south of downtown Sherman, off SH-11. Myself and the
> rest of the gang have been asked to come up, present, and demo to the
> Grayson co. ARES folks. They are looking to see how HSMM-MESH can be
> a benefit to their ARES comms. I really could use a few more folks.
>
> I was planning to give part of my 'Mesh Applications' talk (from
> Cowtown and Hamcom this past year) along with a smattering of Kip's
> intro talk for some of the theory. Still, the demonstrations would be
> of the most benefit here. I have an IP camera, a TNC to hook to one of
> my nodes, and a "lollipop".
>
> Their meeting starts at 7pm although we are scheduled to start
> around 7:30pm for about 45-minutes.
>
> Please email me if you can come up and support the cause. We could
> carpool from either my house in Van Alstyne or even Grayson Co. College
> where our last meeting was held.
>
> Thanks!
>
> -Rusty-
>
> ----- Forwarded message from Wade Graves <wade.graves@...> -----
>
> To: "Rusty Haddock/AE5AE" <rusty@...>
> From: Wade Graves <wade.graves@...>
> Subject: Re: HSMM-MESH practical demo?
> Date: Sat, 12 Jan 2013 07:37:10 -0600
>
> Rusty,
>
> Thank you. What this will probably need to be is a sales pitch with some
> practical applications demonstrated. The group you will be talking to will
> be a mixture of some who attended our joint meeting and many who are not
> very technically oriented. The larger group that's not very technically
> oriented will dig in IF they see a benefit for our ARES communications.

>
> What we are thinking is a smattering of theory overview and lots of
> practical application -- this group needs to see how it can be used in a
> situation -- your balloon festival part would appeal to them if you discuss
> the benefits of how it worked for your group. If the guys can bring their
> kits, set them up, and show how they can feed video and messages to each
> other, that will hook the folks and convince them to learn more.
>
> Rick -- any additional thoughts/observations?
>
> Again Rusty, thank you very much for coming and doing the 45 minute
> presentation.
>
> 73
> Wade
>
> On Thu, Jan 10, 2013 at 5:59 PM, Rusty Haddock <rusty@...>wrote:
>
>> Wade Graves wrote:
>> >Rusty
>> >Happy new year!
>> >
>> >Are you and your team still available for January 22nd for our ARES
>> meeting
>> >to demo HSMM-MESH and show how it can be used in an area during an
>> event?
>>
>> I s'pose I can make that. I'll see if any of the other "critters" from
>> "down south" would like to join in. :-)
>>
>> I can probably trim down my "Mesh Applications" talk that I'll be giving
>> at the Cowtown 'fest the prior Saturday. Still, if you can give me a
>> little more input on what the ARES group is looking for or is planning
>> to do will be of some help to me.
>>
>> You can give me a call here at home if you'd like.
>>
>> -Rusty-
>> 903-482-2183
>> --
>> _____ Rusty Haddock <=> AE5AE
>> |\/ o \ o Way out yonder in the
>> | (-< O o Van Alstyne (TX) Metropolitan Area
>> |/__V__/ Math illiteracy affects 7 out of 5 people!
>>
> ----- End forwarded message -----
>

2614. Re: [DAWG-HSMM] Re: HSMM-MESH practical demo? (fwd)

Yahoo group: DAWG-HSMM
Date: 2013-01-16 17:17:34 UTC
From: Rusty Haddock
Topic: 2611 Message: 2614

```
Doug Kilgore wrote:
>What is the date?
>
>D KD5OUG
>
>>>>>On 1/14/2013 3:41 PM, Rusty Haddock wrote:
>> Hey folks!
>>
>> Is there anyone in the group that would be willing to help out
>> and come up to Sherman Muni airport with me a week from tomorrow?

January 22nd.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2615. Re: [DAWG-HSMM] Re: HSMM-MESH practical demo? (fwd)

Yahoo group: DAWG-HSMM
Date: 2013-01-17 01:55:30 UTC
From: Kipton Moravec
Topic: 2611 Message: 2615

On Wed, 2013-01-16 at 11:17 -0600, Rusty Haddock wrote:
> Doug Kilgore wrote:
> >What is the date?
> >
> >D KD5OUG
> >
> >>>>>On 1/14/2013 3:41 PM, Rusty Haddock wrote:
> >> Hey folks!
> >>
> >> Is there anyone in the group that would be willing to help out
> >> and come up to Sherman Muni airport with me a week from tomorrow?
>
> January 22nd.
>

I would, but I am heading to Germany on Tuesday.

Kip

2616. Re: [DAWG-HSMM] Re: HSMM-MESH practical demo? (fwd)

Yahoo group: DAWG-HSMM
Date: 2013-01-16 21:29:29 UTC
From: Kilgore
Topic: 2611 Message: 2616

I will help. I can bring my node on tripod stand with battery.

Anything else you want me to bring?

I would like to meet David S. for carpool.

Dougt

On 1/16/2013 11:17 AM, Rusty Haddock wrote:
> Doug Kilgore wrote:
> >What is the date?
> >
> >D KD5OUG
> >
>>>>>> On 1/14/2013 3:41 PM, Rusty Haddock wrote:
> >> Hey folks!
> >>
> >> Is there anyone in the group that would be willing to help out
> >> and come up to Sherman Muni airport with me a week from tomorrow?
>
> January 22nd.
>

2617. Re: HSMM-MESH practical demo? (fwd)

Yahoo group: DAWG-HSMM
Date: 2013-01-21 21:43:23 UTC
From: ae5vs
Topic: 2611 Message: 2617

Rusty and Doug, I cannot go tomorrow(Tuesday) evening. My elderly mother fell and broke her hip - surgery is tomorrow in Denton and I don't know when I will be free.

Do you need the camera(Linksys WVC-200) and node setup for the camera for the demo? If so, then maybe we can figure a way to get it to you tomorrow sometime.

David
AE5VS

--- In DAWG-HSMM@yahoogroups.com, Rusty Haddock wrote:
>
> Doug Kilgore wrote:
> >What is the date?
> >
> >D KD5OUG
> >
> >>>>>On 1/14/2013 3:41 PM, Rusty Haddock wrote:
> >> Hey folks!
> >>
> >> Is there anyone in the group that would be willing to help out
> >> and come up to Sherman Muni airport with me a week from tomorrow?
>
> January 22nd.
>
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>

2618. Re: [DAWG-HSMM] Re: HSMM-MESH practical demo? (fwd)

Yahoo group: DAWG-HSMM
Date: 2013-01-21 22:42:24 UTC
From: Rusty Haddock
Topic: 2611 Message: 2618

```
>Rusty and Doug, I cannot go tomorrow(Tuesday) evening. My elderly
>mother fell and broke her hip - surgery is tomorrow in Denton and
>I don't know when I will be free.
>
>Do you need the camera(Linksys WVC-200) and node setup for the
>camera for the demo? If so, then maybe we can figure a way to get
>it to you tomorrow sometime.
>
>David
>AE5VS

You have a young mother??? :-)
Sorry to hear your elderly one broke her hip.

I have a DLink camera that we can use. Don't worry 'bout it. Get your
Mom taken care of!

Doug, do you want to meet me at the College around 6:15-6:30pm?
It shouldn't take 15-20 minutes, top, to drive up to the airport.

Anyone else that wanted to come along? Lemme know ASAP, if not sooner!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2619. Re: [DAWG-HSMM] Re: HSMM-MESH practical demo? (fwd)

Yahoo group: DAWG-HSMM
Date: 2013-01-22 01:34:11 UTC
From: Kilgore
Topic: 2611 Message: 2619

I will meet you at the college. Please look it up on Google maps an
send me a link to the location. What talk-in frequency?

I will stop for supper before then. Do you have any recommendations for
eating around there?

Doug

On 1/21/2013 4:42 PM, Rusty Haddock wrote:
> >Rusty and Doug, I cannot go tomorrow(Tuesday) evening. My elderly
> >mother fell and broke her hip - surgery is tomorrow in Denton and
> >I don't know when I will be free.
> >
> >Do you need the camera(Linksys WVC-200) and node setup for the
> >camera for the demo? If so, then maybe we can figure a way to get
> >it to you tomorrow sometime.
> >
> >David
> >AE5VS
>
> You have a young mother??? :-)
> Sorry to hear your elderly one broke her hip.
>
> I have a DLink camera that we can use. Don't worry 'bout it. Get your
> Mom taken care of!
>
> Doug, do you want to meet me at the College around 6:15-6:30pm?
> It shouldn't take 15-20 minutes, top, to drive up to the airport.
>
> Anyone else that wanted to come along? Lemme know ASAP, if not sooner!
>
> -Rusty-

2620. Vulnerability in Cisco Linksys Router

Yahoo group: DAWG-HSMM
Date: 2013-01-22 19:46:35 UTC
From: n5sqa
Topic: 2620 Message: 2620

FYI

--Vulnerability in Cisco Linksys Router (January 17, 2013) Cisco has acknowledged that there is a vulnerability in a Linksys router that could be exploited to gain complete control of the device, which is used for wireless home networks. Cisco says that despite earlier reports suggesting that the flaw affects multiple models, it actually occurs only in the Linksys WRT54GL model. Cisco has developed a patch for the issue and is currently testing it. Until the fix is made available users are urged to ensure that they have configured their networks securely and that strangers and other untrusted individuals do not connect to the router with an Ethernet cable.
http://www.csoonline.com/article/727005/cisco-confirms-linksys-firmware-flaw-says-only-one-router

Ron

2621. Re: [DAWG-HSMM] Vulnerability in Cisco Linksys Router

Yahoo group: DAWG-HSMM
Date: 2013-01-22 20:08:32 UTC
From: Rusty Haddock
Topic: 2620 Message: 2621

```
n5sqa wrote:
>FYI
>
> --Vulnerability in Cisco Linksys Router (January 17, 2013) Cisco has acknowledged that
there is a vulnerability in a Linksys router that could be exploited to gain complete
control of the device, which is used for wireless home networks. Cisco says that despite
earlier reports suggesting that the flaw affects multiple models, it actually occurs only
in the Linksys WRT54GL model. Cisco has developed a patch for the issue and is currently
testing it. Until the fix is made available users are urged to ensure that they have
configured their networks securely and that strangers and other untrusted individuals do
not connect to the router with an Ethernet cable.
>http://www.csoonline.com/article/727005/cisco-confirms-linksys-firmware-flaw-says-only-on
e-router

Keep in mind that this pertains to Cisco-Linksys's original firmware,
version 4.31.14. Until the actual method of attack is released, it
would be hard to say if this pertains to the OpenWrt release of firmware.

Note that OpenWrt (the version of Linux running under HSMM-MESH) is
NUMEROUS generations distant from the original sources that Linksys used.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2622. Fwd: Amateur Radio and Smart Phones - Convergence

Yahoo group: DAWG-HSMM
Date: 2013-01-24 04:10:39 UTC
From: Kilgore
Topic: 2622 Message: 2622

For your info.

Doug KD5OUG

-------- Original Message --------
Subject: Amateur Radio and Smart Phones - Convergence
Date: Wed, 23 Jan 2013 18:56:22 -0700
From: Plano Amateur Radio Klub <webmaster@...>
Reply-To: Plano Amateur Radio Klub <>
To: Doug Kilgore <kilgore1317@...>

Amateur Radio and Smart Phones - Convergence

On Saturday January 26, the Plano Amateur Radio Club will be hosting a seminar on Smart Phones and Amateur Radio at the Lucas Fire Department, 165 Country Club Rd. in Lucas. The session will start promptly at 1pm.

KE5VBO, Eric and W5ADC, Tony will be covering the best apps to converge amateur radio with the latest smart phone technology. Both Androids and iOS phones will be featured in the presentation. Focus will be on tools to converge amateur radio and emergency communications with your iphone, android or tablet.

If you're a ham and have a smart phone or tablet, this is a seminar you can't miss.

Look forward to seeing you at 1pm on Saturday January 26.

2623. Cisco to sell Linksys to Belkin

Yahoo group: DAWG-HSMM
Date: 2013-01-25 17:40:03 UTC
From: Rusty Haddock
Topic: 2623 Message: 2623

Numerous new sources are reporting that Cisco is going to sell its Linksys business unit to Belkin. This is the link to the Wall Street Journal article.

http://tinyurl.com/b4fklhj

Wow! One-stop shopping for mesh nodes and the batteries that power them. :)

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2624. "Intro to HSMM-MESH" for Denton Co ARA tonight

Yahoo group: DAWG-HSMM
Date: 2013-01-28 20:09:28 UTC
From: Rusty Haddock
Topic: 2624 Message: 2624

Meeting starts at 7pm. See www.dcara.net for details and location.
My third talk in 9-days... and they have all been fun so far.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2625. Re: [DAWG-HSMM] Vulnerability in Cisco Linksys Router

Yahoo group: DAWG-HSMM
Date: 2013-01-29 03:20:02 UTC
From: Bob Diepenbrock
Topic: 2620 Message: 2625

I wouldn't worry about this issue that much if you are running HSMM-MESH. DD-WRT has greatly changed since Linksys released the source code for this router. Much of the system and the services that run on it have been rewritten time and again over the years.

Also, there are a number of exploits available for the default HSMM-MESH firmware load out of the box. There is at least one "semi well known" way to get into a MESH node (last I looked) that comes with the default firmware image. Don't worry about it though, most folks that would do bad things on a MESH node will be stumped by the MESH stuff anyway.

-= bob =-

On Tue, Jan 22, 2013 at 1:46 PM, n5sqa <n5sqa@...> wrote:

> **
>
>
> FYI
>
> --Vulnerability in Cisco Linksys Router (January 17, 2013) Cisco has
> acknowledged that there is a vulnerability in a Linksys router that could
> be exploited to gain complete control of the device, which is used for
> wireless home networks. ___
> Reply via web post<http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJxMmlxM2gxBF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMyNjIwBHNlYwNmdHIEc2xrA3JwbHkEc3RpbWUDMTM1ODg4NDAwMA--?act=reply&messageNum=2620> Reply
> to sender
> <n5sqa@...?subject=Re%3A%20Vulnerability%20in%20Cisco%20Linksys%20Router> Reply
> to group
>
<DAWG-HSMM@yahoogroups.com?subject=Re%3A%20Vulnerability%20in%20Cisco%20Linksys%20Router>
Start
> a New Topic<http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJmYTVnYnQxBF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNudHBjBHN0aW1lAzEzNTg4ODQwMDA-> Messages
> in this topic<http://groups.yahoo.com/group/DAWG-HSMM/message/2620;_ylc=X3oDMTM1ZjltYzExBF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMyNjIwBHNlYwNmdHIEc2xrA3Z0cGMEc3RpbWUDMTM1ODg4NDAwMAR0cGNJZAMyNjIw>(1)
> Recent Activity:
>
>
> Visit Your Group<http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJmZ3A3czk5BF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzEzNTg4ODQwMDA->
> [image: Yahoo! Groups]<http://groups.yahoo.com/;_ylc=X3oDMTJlMzhhNmwyBF9TAzk3MzU5NzE0BGd

ycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTM1ODg4NDAwMA-->
> Switch to:
Text-Only<DAWG-HSMM-traditional@...m?subject=Change+Delivery+Format:+Traditional>,
> Daily Digest<DAWG-HSMM-digest@yahoogroups.com?subject=Email+Delivery:+Digest>•
> Unsubscribe <DAWG-HSMM-unsubscribe@yahoogroups.com?subject=Unsubscribe> • Terms
> of Use <http://docs.yahoo.com/info/terms/> • Send us Feedback
> <ygroupsnotifications@yahoogroups.com?subject=Feedback+on+the+redesigned+individual+mail
+v1>
> .
>
>
>

2626. Re: "Intro to HSMM-MESH" for Denton Co ARA tonight

Yahoo group: DAWG-HSMM
Date: 2013-01-30 03:35:12 UTC
From: Wade Graves
Topic: 2624 Message: 2626

And you're doing a great job Rusty!

Many HSMM-MESH units are being built in Grayson County as a result of the meeting.

Thanks again!
73
Wade, KF5AUD
Grayson County ARES AEC

2627. Re: [DAWG-HSMM] Re: "Intro to HSMM-MESH" for Denton Co ARA tonight

Yahoo group: DAWG-HSMM
Date: 2013-01-30 04:16:51 UTC
From: Rusty Haddock
Topic: 2624 Message: 2627

Wade Graves wrote:
>And you're doing a great job Rusty!
>
>Many HSMM-MESH units are being built in Grayson County as a result of the
>meeting.
>
>Thanks again!
>73

That's what I like to hear! Thanks Wade!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2628. Everyday uses for HSMM?

Yahoo group: DAWG-HSMM
Date: 2013-01-30 18:15:01 UTC
From: Noah
Topic: 2628 Message: 2628

Is there any day to day uses for HSMM? Or is it only used for experimentation and Emergencies training? Just wondering if its used like how other digital modes are used.

Noah KE5VQL

2629. Re: [DAWG-HSMM] Everyday uses for HSMM?

Yahoo group: DAWG-HSMM
Date: 2013-01-30 20:21:30 UTC
From: Rusty Haddock
Topic: 2628 Message: 2629

Noah wrote:
>Is there any day to day uses for HSMM? Or is it only used for
>experimentation and Emergencies training? Just wondering if its used
>like how other digital modes are used.

While the original intent was for emergency situations and public
events, an HSMM-MESH network is suitable for permanent installation.
Most anything that can use TCP/IP to/from remote locations can be put onto
a mesh. I have a camera or two on mine as well as temperature sensors.
A digital telephone network w/ PBX can be made as well. Look on the
web for plans using a wifi access point for playing music around a mesh.

Here's a series of article you could take and modify to use on a mesh:

http://mightyohm.com/blog/2008/10/building-a-wifi-radio-part-1-introduction/

You could adapt those for using a mesh and attach a small computer (like
a Raspberry Pi) convert the digital files to music (or even video!) so
you wouldn't be violating Part 97 (but IANAL). Another idear is to do
the USB mod and add an audio USB stick.

This where the fun is really at -- putting applications on the mesh!

What can a mesh be used for? Most anything the Internet is!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2630. Fwd: Next-Gen Wi-Fi: [What You Need to Know]

Yahoo group: DAWG-HSMM
Date: 2013-02-05 19:35:45 UTC
From: Kilgore
Topic: 2630 Message: 2630

-------- Original Message --------
Subject: Next-Gen Wi-Fi: [What You Need to Know]
Date: 5 Feb 2013 14:19:28 -0500
From: InformationWeek <InformationWeek@...>
Reply-To: InformationWeek <CSR5_OnlineEvents@...>
To: kd5oug@...

An InformationWeek Webcast
If you have trouble viewing this email, read the online version
<http://app.reg.techweb.com/e/es.aspx?s=2150&e=108430&elq=5ebe0b2a61f94e169eb2ed4cc8aece28
>.

motorola
<https://www.techwebonlineevents.com/ars/eventregistration.do?mode=eventreg&F=1005467&K=1I
K1DCNA&elq=5ebe0b2a61f94e169eb2ed4cc8aece28>

*Next Generation Wi-Fi: Everything you need to know about 802.11ac *
*Date: Tuesday, February 12, 2013 | Time: 10:00 AM PT / 1:00 PM ET *

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K1DCNA&elq=5ebe0b2a61f94e169eb2ed4cc8aece28>

The corporate appetite for wireless bandwidth is seemingly insatiable.

Today’s 802.11n Wi-Fi standard, offering 300Mbps to 450Mbps maximum
throughput, has matured and its generous capacity is already being
tested in some organizations and soon will be in others. More users,
more devices per user, BYOD, big apps, and cellular offload are all
fueling the need for faster wireless connections. Consequently, the IEEE
developed a new 1Gbps WLAN standard, called 802.11ac. This
fifth-generation WLAN is now nearing standardization, and products
running at 1Gbps speeds and beyond are emerging to serve enterprise
mission-critical applications. This session will outline key differences
in the 802.11ac and 802.11n standards, explain why Multi-user MIMO
(Multiple Input Multiple Output) is important, and the benefits of
spatial streams.

At this webinar, executives will learn:

Featured Speakers:
Chris Hinsz,
<https://www.techwebonlineevents.com/ars/eventregistration.do?mode=eventreg&F=1005467&K=1I
K1DCNA&elq=5ebe0b2a61f94e169eb2ed4cc8aece28>
Product Line Manager, Motorola Solutions

Andre Kindness
<https://www.techwebonlineevents.com/ars/eventregistration.do?mode=eventreg&F=1005467&K=1IK1DCNA&elq=5ebe0b2a61f94e169eb2ed4cc8aece28>,
Principal Analyst serving Infrastructure & Operations Professionals

* What are 802.11ac's benefits in addition to its higher speeds
* How a company integrates this new network option with its current wireless LANs
* Expected 802.11ac product availability
* When should companies consider moving from their current networks to 802.11ac?

Visit the Event Site to Register
<https://www.techwebonlineevents.com/ars/eventhttps://www.techwebonlineevents.com/ars/eventregistration.do?mode=eventreg&F=1005467&K=1IK1DCNA&elq=5ebe0b2a61f94e169eb2ed4cc8aece28registration.do?mode=eventreg&F=1005467&K=1IK1CCNA&elq=5ebe0b2a61f94e169eb2ed4cc8aece28>

System Requirements & Technical Support
<http://event.on24.com/view/help/ehelp.html&elq=5ebe0b2a61f94e169eb2ed4cc8aece28>

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*
FOR FURTHER COMMUNICATION, PLEASE CONTACT: *
Customer Service
UBM Tech
600 Community Drive
Manhasset NY 11030

2631. Raspberry Pi

Yahoo group: DAWG-HSMM
Date: 2013-02-05 21:14:17 UTC
From: w0uo
Topic: 2631 Message: 2631

Has anyone looked at the Raspberry Pi computer? It has wifi built in and is programmable in LINUX. Any compatibility or use in an HSMM-MESH network?

Jim Spaulding W0UO

2632. Re: [DAWG-HSMM] Raspberry Pi

Yahoo group: DAWG-HSMM
Date: 2013-02-05 21:48:12 UTC
From: Kilgore
Topic: 2631 Message: 2632

I just bought one and have it hooked to my HDTV. Looks great but I haven't had time to do anything constructive with it.

Doug KD5OUG

On 2/5/2013 3:14 PM, w0uo wrote:
>
> Has anyone looked at the Raspberry Pi computer? It has wifi built in
> and is programmable in LINUX. Any compatibility or use in an HSMM-MESH
> network?
>
> Jim Spaulding W0UO
>
>

2633. Re: [DAWG-HSMM] Raspberry Pi

Yahoo group: DAWG-HSMM
Date: 2013-02-05 21:53:57 UTC
From: Michael Griego
Topic: 2631 Message: 2633

Actually, the current models do not have WiFi built in, but there are a few USB WiFi adapters that have been tested to work well. I have a couple of the Raspberry Pis, one running RaspBMC. They are very cool little SBCs (Single Board Computer).

To answer your question, though… The limits of what a Raspberry Pi can be used for on an HSMM-MESH network only exist in the limits of your mind. The RPi is a computer, just like any other, and the HSMM-MESH is a network, just like any other IP network, just with the exception of having some extra portal elements to help people find resources on the network. ANYTHING is possible.

--Mike

On Feb 5, 2013, at 3:14 PM, w0uo wrote:

>
> Has anyone looked at the Raspberry Pi computer? It has wifi built in and is programmable in LINUX. Any compatibility or use in an HSMM-MESH network?
>
>
>
> Jim Spaulding W0UO
>
>
>
>
>

2634. Re: [DAWG-HSMM] Raspberry Pi

Yahoo group: DAWG-HSMM
Date: 2013-02-05 21:57:58 UTC
From: James Hall
Topic: 2631 Message: 2634

I guess I'm out of the loop.. what portal elements?

On Tue, Feb 5, 2013 at 4:53 PM, Michael Griego <n5gnu@...> wrote:

> **
>
>
> Actually, the current models do not have WiFi built in, but there are a
> few USB WiFi adapters that have been tested to work well. I have a couple
> of the Raspberry Pis, one running RaspBMC. They are very cool little SBCs
> (Single Board Computer).
>
> To answer your question, though… The limits of what a Raspberry Pi can be
> used for on an HSMM-MESH network only exist in the limits of your mind.
> The RPi is a computer, just like any other, and the HSMM-MESH is a
> network, just like any other IP network, just with the exception of having
> some extra portal elements to help people find resources on the network.
> ANYTHING is possible.
>
> --Mike
>
> On Feb 5, 2013, at 3:14 PM, w0uo wrote:
>
>
>
> Has anyone looked at the Raspberry Pi computer? It has wifi built in and
> is programmable in LINUX. Any compatibility or use in an HSMM-MESH network?
> ****
>
> ** **
>
> Jim Spaulding W0UO****
>
> ** **
>
>
>
>

2635. Re: [DAWG-HSMM] Raspberry Pi

Yahoo group: DAWG-HSMM
Date: 2013-02-05 22:01:27 UTC
From: Michael Griego
Topic: 2631 Message: 2635

By "Portal", I'm basically talking about the web page that you can use on an HSMM-MESH node that will present you with the list of advertised services that are available on the HSMM-MESH network (i.e. cameras, web applications, etc).

--Mike

On Feb 5, 2013, at 3:57 PM, James Hall wrote:

> I guess I'm out of the loop.. what portal elements?
>
>
> On Tue, Feb 5, 2013 at 4:53 PM, Michael Griego <n5gnu@...> wrote:
>
> Actually, the current models do not have WiFi built in, but there are a few USB WiFi adapters that have been tested to work well. I have a couple of the Raspberry Pis, one running RaspBMC. They are very cool little SBCs (Single Board Computer).
>
>
> To answer your question, though… The limits of what a Raspberry Pi can be used for on an HSMM-MESH network only exist in the limits of your mind. The RPi is a computer, just like any other, and the HSMM-MESH is a network, just like any other IP network, just with the exception of having some extra portal elements to help people find resources on the network. ANYTHING is possible.
>
> --Mike
>
> On Feb 5, 2013, at 3:14 PM, w0uo wrote:
>
>>
>>
>> Has anyone looked at the Raspberry Pi computer? It has wifi built in and is programmable in LINUX. Any compatibility or use in an HSMM-MESH network?
>>
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>>
>> Jim Spaulding W0UO
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2636. Re: [DAWG-HSMM] Raspberry Pi

Yahoo group: DAWG-HSMM
Date: 2013-02-05 22:45:48 UTC
From: Todd Caldwell
Topic: 2631 Message: 2636

I have a couple of them we use to feed HDTV's for info kiosk displays at FenCon. They seem to work very well.

A friend tells me there's an asterisk distribution for RPi. That and a good sized thumb drive or external HDD would make a nice addition to a MESH network.

Todd Caldwell - K5SLR

w0uo wrote:
> <!-- /* start of attachment style */ .ygrp-photo-title{ clear: both;
> font-size: smaller; height: 15px; overflow: hidden; text-align:
> center; width: 75px; } div.ygrp-photo{ background-position: center;
> background-repeat: no-repeat; background-color: white; border: 1px
> solid black; height: 62px; width: 62px; } div.photo-title a,
> div.photo-title a:active, div.photo-title a:hover, div.photo-title
> a:visited { text-decoration: none; } div.attach-table div.attach-row {
> clear: both; } div.attach-table div.attach-row div { float: left; /*
> margin: 2px;*/ } p { clear: both; padding: 15px 0 3px 0; overflow:
> hidden; } div.ygrp-file { width: 30px; valign: middle; }
> div.attach-table div.attach-row div div a { text-decoration: none; }
> div.attach-table div.attach-row div div span { font-weight: normal; }
> div.ygrp-file-title { font-weight: bold; } /* end of attachment style
> */ --> <!-- /* Font Definitions */ @font-face {font-family:Calibri;
> panose-1:2 15 5 2 2 2 4 3 2 4;} /* Style Definitions */ p.MsoNormal,
> li.MsoNormal, div.MsoNormal {margin:0in; margin-bottom:.0001pt;
> font-size:11.0pt; font-family:"Calibri","sans-serif";} a:link,
> span.MsoHyperlink {mso-style-priority:99; color:blue;
> text-decoration:underline;} a:visited, span.MsoHyperlinkFollowed
> {mso-style-priority:99; color:purple; text-decoration:underline;}
> span.EmailStyle17 {mso-style-type:personal-compose;
> font-family:"Calibri","sans-serif"; color:windowtext;} .MsoChpDefault
> {mso-style-type:export-only;} @page WordSection1 {size:8.5in 11.0in;
> margin:1.0in 1.0in 1.0in 1.0in;} div.WordSection1 {page:WordSection1;}
> -->
>
> Has anyone looked at the Raspberry Pi computer? It has wifi built in
> and is programmable in LINUX. Any compatibility or use in an
> HSMM-MESH network?
>
> Jim Spaulding W0UO
>
>
>
>

2637. Re: [DAWG-HSMM] Raspberry Pi

Yahoo group: DAWG-HSMM
Date: 2013-02-05 23:05:31 UTC
From: Keith Johnson
Topic: 2631 Message: 2637

I've experimented with the RPi distribution that includes asterisk. It works as well as the full distribution that I ran on my laptop and for a fraction of the cost of the hardware I was using.
On Feb 5, 2013 5:47 PM, "Todd Caldwell" <tmCaldwell@...> wrote:

> **
>
>
> I have a couple of them we use to feed HDTV's for info kiosk displays at
> FenCon. They seem to work very well.
>
> A friend tells me there's an asterisk distribution for RPi. That and a
> good sized thumb drive or external HDD would make a nice addition to a
> MESH network.
>
> Todd Caldwell - K5SLR
>
> w0uo wrote:
> >
> >
> > Has anyone looked at the Raspberry Pi computer? It has wifi built in
> > and is programmable in LINUX. Any compatibility or use in an
> > HSMM-MESH network?
> >
> > Jim Spaulding W0UO
> >
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> >
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2638. Re: [DAWG-HSMM] Raspberry Pi

Yahoo group: DAWG-HSMM
Date: 2013-02-05 23:08:17 UTC
From: Rusty Haddock
Topic: 2631 Message: 2638

w0uo wrote:
>Has anyone looked at the Raspberry Pi computer? It has wifi built in and is
>programmable in LINUX. Any compatibility or use in an HSMM-MESH network?

Well worth the $35 ! Sad to say that an SD doesn't come with it but
you will need that and a 5v 700mA (recommend a 1A supply or better)
power supply with a micro-USB connector. With a network cable you can
login without futzing with the HDMI and keyboard/mouse.

I have loaded OLSR and ngircd onto mine (got the latter working just
fine) and bought one of those itty bitty USB WiFi dongles. So far it's
been a ton of fun but I haven't gone into ad-hoc mode and added it to
my mesh.... yet! Hopefully soon.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2639. Raspberry Pi

Yahoo group: DAWG-HSMM
Date: 2013-02-07 00:27:51 UTC
From: Gen Mail
Topic: 2631 Message: 2639

We're still pretty "virgin-ish" with our Mesh network up here (hopefully the warm spring days put people up their towers with new antennas!).

Anyhow, I've taken a USB GPS dongle and Wifi dongle and have been able to run an APRS client and push a feed in to APRS.FI
The cool thing about this, is if you are doing parade control.
A number of Raspi's w/ wifi & GPS's would help in tracking floats (for pacing).

Unrelated, I've built a photo interval controller running an IR led to trigger my camera.

cheers
Steve
VA3SRV

2642. Re: [DAWG-HSMM] Fwd: HSMM Mesh projects

Yahoo group: DAWG-HSMM
Date: 2013-03-02 00:58:40 UTC
From: Rusty Haddock
Topic: 2642 Message: 2642

Hey John!
Glad to see y'all are ramping up to use HSMM-MESH! I'm not sure what advice I can give you right now. What is this about 'new IP address confusion'?

I have an IP camera hooked up to one of my nodes right now. A regular webcam won't do unless you've got some sort of computer that will make the video viewable. On the other hand, an IP camera has a small, built-in computer that acts like a webserver so that video from the camera can be viewed.

The IP camera should be connected to one of the LAN ports on a mesh node. As far as IP addresses, I'm guessing the confusion is about how to access the camera? The camera can be on the LAN (the 172.27.0.xx addresses) or in the DMZ (yes, De-Militarized Zone) and have a 10.xx.yy.zz address like the WiFi port on a mesh node. In this instance, the camera will not be behind a firewall.

If you'd tell me more about the confusion then I can address that more directly.

-Rusty-
--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2643. ARES group experimenting with HSMM Mesh

Yahoo group: DAWG-HSMM
Date: 2013-03-02 03:41:19 UTC
From: KE5MSE John
Topic: 2643 Message: 2643

I saw the nicely built antenna built by one of the yahoo group members on the http://hsmm-mesh.org website. I am the Emergency Coordinator for the District 14 ARES group in Northeast Harris County and I challenged our talented group with researching and attempting to build a mesh network in our community after hearing about the Plano Hamfest where it was demonstrated. Video links were established at the hamfest and I was excited about getting mesh going here as an alternate communication link to the Internet if "all else fails". Well, the response was great, with five talented guys stepping up, a presentation was given to our group and we all flashed our used routers, built or bought antennas and started to experiment. The many trees and flat terrain here in Harris County (Houston) prohibited any connections so we tried open parking lots and finally had success across a lake and again got interested in continuing experimentation. We were able to connect over a mile across Lake Houston.

Now we are trying to get to the next level and send video. There appear to be several software programs and some new IP address configuration issues our volunteers have struggled with so I thought I would ask for advice. Our final goal would be to establish a more efficient, elevated access point, possible on a fire station that could connect our cell. Still not sure that is possible with all the trees.

Our latest attempts with Focus Video Phone seemed to be a good option as it seemed very simple to configure. As we get more knowledgeable with the mesh, we may find other software that works even better. As you can see we are only several months into this and would appreciate any ideas on video software, IP camera suggestions, and ways to expand our coverage.

Elektron70

2644. Re: [DAWG-HSMM] ARES group experimenting with HSMM Mesh

Yahoo group: DAWG-HSMM
Date: 2013-03-02 16:58:52 UTC
From: Mark J Culross
Topic: 2643 Message: 2644
Attachments: 1 described; binary payloads are missing from this source WARC

John (KE5MSE):

Attached please find a copy of the file that I wrote describing how I attached my Foscam FI8918W IP camera to my mesh network. I hope this helps in your quest. Let me know if you have any questions . . .

Good luck & have fun !!

Mark J Culross
KD5RXT

From: KE5MSE John <elektron70@...>
To: "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@yahoogroups.com>
Sent: Fri, March 1, 2013 9:41:23 PM
Subject: [DAWG-HSMM] ARES group experimenting with HSMM Mesh

I saw the nicely built antenna built by one of the yahoo group members on the http://hsmm-mesh.org website. I am the Emergency Coordinator for the District 14 ARES group in Northeast Harris County and I challenged our talented group with researching and attempting to build a mesh network in our community after hearing about the Plano Hamfest where it was demonstrated. Video links were established at the hamfest and I was excited about getting mesh going here as an alternate communication link to the Internet if "all else fails". Well, the response was great, with five talented guys stepping up, a presentation was given to our group and we all flashed our used routers, built or bought antennas and started to experiment. The many trees and flat terrain here in Harris County (Houston) prohibited any connections so we tried open parking lots and finally had success across a lake and again got interested in continuing experimentation. We were able to connect over a mile across Lake Houston.

Now we are trying to get to the next level and send video. There appear to be several software programs and some new IP address configuration issues our volunteers have struggled with so I thought I would ask for advice. Our final goal would be to establish a more efficient, elevated access point, possible on a fire station that could connect our cell. Still not sure that is possible with all the trees.

Our latest attempts with Focus Video Phone seemed to be a good option as it seemed very simple to configure. As we get more knowledgeable with the mesh, we may find other software that works even better. As you can see we are only several months into this and would appreciate any ideas on video software, IP camera suggestions, and ways to expand our coverage.

Elektron70

2645. TV

Yahoo group: DAWG-HSMM
Date: 2013-03-04 00:53:34 UTC
From: Cecil
Topic: 2645 Message: 2645

Noah,

You may be better off with a USB TV receiver.

These can be cheap on ebay of other places. Much more simple than finding a TV with AV out.

-Cecil
AA5CE

2646. Re: [DAWG-HSMM] TV

Yahoo group: DAWG-HSMM
Date: 2013-03-04 01:16:33 UTC
From: Noah Chalker
Topic: 2645 Message: 2646

I guess I'll do that! Thanks

From,
Noah Chalker ke5vql

On Mar 3, 2013, at 18:53, "Cecil" <crcasey934@...> wrote:

> Noah,
>
> You may be better off with a USB TV receiver.
>
> These can be cheap on ebay of other places. Much more simple than finding a TV with AV out.
>
> -Cecil
> AA5CE
>
>

2647. Re: [DAWG-HSMM] TV

Yahoo group: DAWG-HSMM
Date: 2013-03-04 02:51:24 UTC
From: Noah Chalker
Topic: 2645 Message: 2647

Huh. I wrote to the wrong yahoo group. My bad.

From,
Noah Chalker ke5vql

On Mar 3, 2013, at 19:16, Noah Chalker <noahchalker@...> wrote:

> I guess I'll do that! Thanks
>
> From,
> Noah Chalker ke5vql
>
>
> On Mar 3, 2013, at 18:53, "Cecil" <crcasey934@...> wrote:
>
>>
>> Noah,
>>
>> You may be better off with a USB TV receiver.
>>
>> These can be cheap on ebay of other places. Much more simple than finding a TV with AV out.
>>
>> -Cecil
>> AA5CE
>
>

2648. Re: [DAWG-HSMM] Fwd: HSMM Mesh projects

Yahoo group: DAWG-HSMM
Date: 2013-03-07 00:05:05 UTC
From: Rusty Haddock
Topic: 2642 Message: 2648

Rob Martin wrote:
>Hi Rusty,
>
>I'm having trouble connecting a camera literally as I write this.
>
>After failures involving having my camera with a static IP on the
>LAN I use for my nodes, I have just tried my Wurt with the LAN set to
>"one host DMZ".
>
>The interface has picked a 10.xx.yy.zz address for itself
>(10.255.247.169) and a mask of 255.255.255.252. This means, I think,
>that there is a 4-address sub-net (10.255.247.168/30) with two usable
>IPs. I added routes to .169 and .170 in my computer manually and I can
>ping .169 across my mesh but cannot ping my camera that I put at .170.

Not quite! There's only one usable address because all 0's and all 1's
are for broadcasts (old & new style), one address will be given to your
camera by DHCP and the remaining address will be the IP address of the
router for sole use by your camera for routing purposes.

While you can turn off DHCP for your DMZ/LAN, it's probably best to
keep it on and setup your camera to be using DHCP to obtain it's IP
address and other goodies.

Also, you should not be needing to add routes to your PC for either of
those addresses. The routes will eventually make it out the router to
which your PC is attached.

>Questions:
>Am I correct that the camera should be located at .170, a static address?

No. Allow your camera to use DHCP to obtain its IP address and other
goodies. When you switch to 1 Host DMZ, the IP address given is for
your router on the LAN port. The address(s) by the attached host(s)
will be in the range (last octet in the IPv4 address) specified in the
DHCP Start and DHCP End windows. For the 1 Host DMZ they will be the
same number. Yes, you will be limited to one host on the node's LAN.

>What is the correct netmask for the camera, 255.0.0.0, 255.255.255.252, or what?

The camera is on its own little network so its netmask would be ...252.
Again, if you let the camera use DHCP this will be taken care of for you.

>Does OLSR advertize routes to the 247.168/30 subnet?

OLSR will advertize a route to the LAN, using the node's LAN address.
On my home mesh, 'route' shows this:

10.173.160.92 ae5ae-base1.aus 255.255.255.252 UG 2 0 0 wl0

The first IP address is that of the LAN port on the node with the camera. ae5ae-base1.aus... is the node's name. When you advertise your camera you can give it a hostname (if the device isn't already choosing a name during the DHCP sign-in negotiations). Oh, the camera's name will show up in the DNS so it should be a piece of cake.

>Why can I ping the interface address but not the camera address?

Without more information about your setup and where your PC is on the mesh relative to the camera, I can't say. I will say that I can ping my camera when it's in the DMZ.

>Thanks for any and all help. I have to get something going before
>the weekend for a very public demo!

You wouldn't happen to have your PC connected into the same node as the camera would you?

Rob, any reason you NEED to use the DMZ? If not, I posted some reasonable instructions in this mailing list in message #2294 and 2295 and they were for putting a camera on the LAN behind the NAT. It also tells how to get the camera advertised on the mesh. It will then be easily accessible via the [Mesh Status] button on any node in the mesh.
You may need to log into Yahoo Groups to acces this URL:

http://tech.groups.yahoo.com/group/DAWG-HSMM/message/2294

Feel free to ask any more questions! If you want to continue with the DMZ effort I can send you screen shots from my browser for setting up my camera.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2649. Re: [DAWG-HSMM] Fwd: HSMM Mesh projects

Yahoo group: DAWG-HSMM
Date: 2013-03-07 02:20:49 UTC
From: Mark J Culross
Topic: 2642 Message: 2649
Attachments: 1 described; binary payloads are missing from this source WARC

Rob:

Attached please find a copy of the file that I wrote describing how I attached my Foscam FI8918W IP camera to my mesh network. I hope this helps in your quest. Let me know if you have any questions . . .

Good luck & have fun !!

Mark J Culross
KD5RXT

From: Rusty Haddock <rusty@...>
To: Rob Martin <rgmrob@yahoo.com>
Cc: DAWG-HSMM@yahoogroups.com
Sent: Wed, March 6, 2013 6:05:13 PM
Subject: Re: [DAWG-HSMM] Fwd: HSMM Mesh projects

Rob Martin wrote:
>Hi Rusty,
>
>I'm having trouble connecting a camera literally as I write this.
>
>After failures involving having my camera with a static IP on the
>LAN I use for my nodes, I have just tried my Wurt with the LAN set to
>"one host DMZ".
>
>The interface has picked a 10.xx.yy.zz address for itself
>(10.255.247.169) and a mask of 255.255.255.252. This means, I think,
>that there is a 4-address sub-net (10.255.247.168/30) with two usable
>IPs. I added routes to .169 and .170 in my computer manually and I can
>ping .169 across my mesh but cannot ping my camera that I put at .170.

Not quite! There's only one usable address because all 0's and all 1's are for broadcasts (old & new style), one address will be given to your camera by DHCP and the remaining address will be the IP address of the router for sole use by your camera for routing purposes.

While you can turn off DHCP for your DMZ/LAN, it's probably best to keep it on and setup your camera to be using DHCP to obtain it's IP address and other goodies.

Also, you should not be needing to add routes to your PC for either of those addresses. The routes will eventually make it out the router to which your PC is attached.

>Questions:
>Am I correct that the camera should be located at .170, a static address?

No. Allow your camera to use DHCP to obtain its IP address and other goodies. When you switch to 1 Host DMZ, the IP address given is for your router on the LAN port. The address(s) by the attached host(s) will be in the range (last octet in the IPv4 address) specified in the DHCP Start and DHCP End windows. For the 1 Host DMZ they will be the same number. Yes, you will be limited to one host on the node's LAN.

>What is the correct netmask for the camera, 255.0.0.0, 255.255.255.252, or what?
>

The camera is on its own little network so its netmask would be ...252. Again, if you let the camera use DHCP this will be taken care of for you.

>Does OLSR advertize routes to the 247.168/30 subnet?

OLSR will advertize a route to the LAN, using the node's LAN address. On my home mesh, 'route' shows this:

10.173.160.92 ae5ae-base1.aus 255.255.255.252 UG 2 0 0 wl0

The first IP address is that of the LAN port on the node with the camera. ae5ae-base1.aus... is the node's name. When you advertise your camera you can give it a hostname (if the device isn't already choosing a name during the DHCP sign-in negotiations). Oh, the camera's name will show up in the DNS so it should be a piece of cake.

>Why can I ping the interface address but not the camera address?

Without more information about your setup and where your PC is on the mesh relative to the camera, I can't say. I will say that I can ping my camera when it's in the DMZ.

>Thanks for any and all help. I have to get something going before
>the weekend for a very public demo!

You wouldn't happen to have your PC connected into the same node as the camera would you?

Rob, any reason you NEED to use the DMZ? If not, I posted some reasonable instructions in this mailing list in message #2294 and 2295 and they were for putting a camera on the LAN behind the NAT. It also tells how to get the camera advertised on the mesh. It will then be easily accessible via the [Mesh Status] button on any node in the mesh. You may need to log into Yahoo Groups to acces this URL:

http://tech.groups.yahoo.com/group/DAWG-HSMM/message/2294

Feel free to ask any more questions! If you want to continue with the DMZ effort I can send you screen shots from my browser for setting up my camera.

```
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2650. IRC on WRT54G

Yahoo group: DAWG-HSMM
Date: 2013-03-14 00:34:49 UTC
From: Bill Vodall
Topic: 2650 Message: 2650

The native ngIRCd installed on the WRT54G and is working great...
Now - for a simpler lighter client - are there any recommendations
for a command line client I could run in another WRT54G? I know
there are many clients on the big computers but would get a kick out
of doing it directly on a 4 MB WRT54G system.

Thanks,
Bill - WA7NWP

2651. Re: [DAWG-HSMM] IRC on WRT54G

Yahoo group: DAWG-HSMM
Date: 2013-03-14 04:17:09 UTC
From: Rusty Haddock
Topic: 2650 Message: 2651

Bill Vodall wrote:
>The native ngIRCd installed on the WRT54G and is working great...
>Now - for a simpler lighter client - are there any recommendations
>for a command line client I could run in another WRT54G? I know
>there are many clients on the big computers but would get a kick out
>of doing it directly on a 4 MB WRT54G system.

Bill,
There are a couple of text-based IRC clients in HSMM-Mesh packages
list. Problem is, when they are installed, there are a number of
libraries (specifically a 'curses' library) to load that will overflow a
4/16Meg router or need additional packages that are not in our archives.
If you've got an 8/32 model then try 'em. 'bitchx' and 'weechat' are
two clients in our package list for the WRT54G routers.

If you want a challenge... <evil grin> you could learn the IRC
protocol and then use 'netcat' to talk to an IRC server... Now THAT'S
minimalistic!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2652. Re: [DAWG-HSMM] IRC on WRT54G

Yahoo group: DAWG-HSMM
Date: 2013-03-14 18:33:10 UTC
From: Bill Vodall
Topic: 2650 Message: 2652

On Wed, Mar 13, 2013 at 9:17 PM, Rusty Haddock <rusty@...> wrote:
>
>

> There are a couple of text-based IRC clients in HSMM-Mesh packages
> list. Problem is, when they are installed, there are a number of
> libraries (specifically a 'curses' library) to load that will overflow a
> 4/16Meg router or need additional packages that are not in our archives.
> If you've got an 8/32 model then try 'em. 'bitchx' and 'weechat' are
> two clients in our package list for the WRT54G routers.

Thanks for the info Rusty. My only WRT54G 8/32 models are the -TM
variant and I haven't had time yet to wade through the slightly more
complex update on them. The Bullet is an option and I'll see if
those packages load from the basic OpenWRT setup.

> If you want a challenge... <evil grin> you could learn the IRC
> protocol and then use 'netcat' to talk to an IRC server... Now THAT'S minimalistic!

Might be worth doing once... Ah for the good ol days of doing SMTP
email manually by Telnet at 1200 baud..

>
> -Rusty-

Thanks again. I just discovered (IE read the docs) how the Package
management is handled on the WRT54's and it's looks like there's some
functional gems there to be taken advantage of. ngIRCd sure went in
easy..

73
Bill, WA7NWP

2653. Where to start

Yahoo group: DAWG-HSMM
Date: 2013-03-14 19:45:38 UTC
From: kf6nfw
Topic: 2653 Message: 2653

I am not new to the radio or the routers and computers, but I am new to this use of HSMM.

Where do I start for making a Mesh system or to make a unit capable of connecting to other Mesh systems?

I have a handful of routers, and am not sure if the one I want to use is even capable of such work.

I could use all the help I can get. Yes I have pilfered through the files and such, and find some of it to be overwhelming, so if someone wants to direct me to good solid reading material I can do that.

I do have the digital handbook for V/UH, and I know there is a huge section dedicated to HSMM, I have read it several times, but am not grasping it fully. I simply would like to go through the process to learn it better.

Thanks in advance for the help.

Mr. Chris Robinson

2654. Re: [DAWG-HSMM] Where to start

Yahoo group: DAWG-HSMM
Date: 2013-03-14 21:21:04 UTC
From: Rusty Haddock
Topic: 2653 Message: 2654

kf6nfw wrote:
> I am not new to the radio or the routers and computers, but I am
>new to this use of HSMM.

Welcome to yet another facit of the hobby, Chris!

> Where do I start for making a Mesh system or to make a unit capable
>of connecting to other Mesh systems?

All it takes is a Linksys WRT54G (v1-4), WRT54GL (all versions),
or a WRT54GS (v1-4), download the HSMM-MESH firmware, and have at it.

The first version of the WRT54G was v1.0 yet this is not written on any
of the labels on the underbelly of the unit. It's the only unit that
uses a 5v power supply, as supplied by Linksys, and has about 20 LEDs
on the front, about twice as many as any later model.

All units do have a serial number and the first four characters will
tell you the version number of the router's hardware by using the
table at http://hsmm-mesh.org/images/hsmm_docs/WRT54Shop.pdf

>I have a handful of routers, and am not sure if the one I want to
>use is even capable of such work.

Sorry, most of us don't read minds so... :) you'll hafta verify which of
your units are useable yourself by checking with the document I linked
to above.

>I could use all the help I can get. Yes I have pilfered through the
>files and such, and find some of it to be overwhelming, so if someone
>wants to direct me to good solid reading material I can do that.

What files have you pilfered? Check out
http://hsmm-mesh.org/just-starting-read-this.html first. If you haven't
perused the user documents on hsmm-mesh.org, I'd go and do that. Start
off with some of the user documents section such as (in about this order):

11 What is a mesh node?
8 HSMM-MESH Design Philosophy
9 Firmware Installation Instructions
12 How to use the web interface
7 Using the MESH (aka Examples how to move stuff over the mesh

After or during that checkout the FAQ's at http://hsmm-mesh.org/faq.html
and maybe some of the slides for our presentations at
http://hsmm-mesh.org/hsmm-files.html

> I do have the digital handbook for V/UH, and I know there is a huge
>section dedicated to HSMM, I have read it several times, but am not
>grasping it fully. I simply would like to go through the process to
>learn it better.

We don't have a process per se. The onus to learn this will be pretty much on your shoulders. We're here to help when we can. What is it that you're not grasping? The idea of a mesh? How to use it? Sorry, again we don't read minds so you'll have to give us some ideas of where you're stuck to help us help you.

BTW, another good resource we've found is a book that's available as a free download at http://www.wndw.net (Wireless Networking for the Developing World). It's kinda like the ARRL Handbook but for wireless networking. That should help you with many of the basic and advanced concepts of wireless networking. Note that the last 1/3 of the book is more about the financial ins and outs for delivering a wireless service. Naturally, being hams, we're not concerned about that part.

Lots of reading to do but there's lots of information out there!

Good luck and come back and ask questions!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2655. Re: [DAWG-HSMM] Where to start

Yahoo group: DAWG-HSMM
Date: 2013-03-14 22:27:57 UTC
From: Bill Vodall
Topic: 2653 Message: 2655

> > Where do I start for making a Mesh system or to make a unit capable
> >of connecting to other Mesh systems?
>
> All it takes is a Linksys WRT54G (v1-4), WRT54GL (all versions),
> or a WRT54GS (v1-4), download the HSMM-MESH firmware, and have at it.

Rusty is the real guru here but one point I'd like to emphasize is to get TWO of the WRT54G routers and upgrade both of them with the firmware. With two routers you'll see the mesh working and get a feel of what it's all about.

Be careful though - nobody can stop with just two.....

73
Bill, WA7NWP

2656. Re: Where to start

Yahoo group: DAWG-HSMM
Date: 2013-03-14 23:14:17 UTC
From: kf6nfw
Topic: 2653 Message: 2656

Thank you for the list of routers, that was a big help. I have numerous wrt54 routers, version is unknown though I know one of them is a v6. I am in middle of moving back to the mid-west so this wil lbe a reading project at first and then on to the hands on approach once we are done moving and stuff is out of a storage unit.
--- In DAWG-HSMM@yahoogroups.com, "kf6nfw" <kf6nfw@...> wrote:
>
> I am not new to the radio or the routers and computers, but I am new to this use of HSMM.
>
> Where do I start for making a Mesh system or to make a unit capable of connecting to other Mesh systems?
>
> I have a handful of routers, and am not sure if the one I want to use is even capable of such work.
>
> I could use all the help I can get. Yes I have pilfered through the files and such, and find some of it to be overwhelming, so if someone wants to direct me to good solid reading material I can do that.
>
> I do have the digital handbook for V/UH, and I know there is a huge section dedicated to HSMM, I have read it several times, but am not grasping it fully. I simply would like to go through the process to learn it better.
>
> Thanks in advance for the help.
>
> Mr. Chris Robinson
>

2657. Re: [DAWG-HSMM] Where to start

Yahoo group: DAWG-HSMM
Date: 2013-03-14 23:47:30 UTC
From: Rusty Haddock
Topic: 2653 Message: 2657

Bill Vodall wrote:
>
>Rusty is the real guru here but one point I'd like to emphasize is to
>get TWO of the WRT54G routers and upgrade both of them with the
>firmware. With two routers you'll see the mesh working and get a
>feel of what it's all about.

Better yet, git a bunch of friends and let them git their own routers
then everybody can start off CHEAP... like good HAMs should. :)

Then, get everybody with their laptops out into a large parking lot --
not near the stores but way, WAY out where nobody but my Dad parks. :)

>Be careful though - nobody can stop with just two.....

Two's company, three's even better company, but at some point you have to
stop buying the clothes and start accessorizing and applicationizing!!! :-)

What we call "lollipops" make for cheap towers that go pret' anywhere.
Think 5-gallon bucket and lid, a 10-ft piece of PVC, sand or concrete
for weight, a few cable ties, maybe some PVC joints and/or joiners,
and you fill in the details for attaching the router to the PVC, running
ethernet cable and power up the PVC, and ballasting the bucket. A big,
plastic kitty litter box will also work, in place of the bucket.

And above all -- LEARN AND HAVE FUN!!! Remember -- this is HAM RADIO!

-Rusty-
--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2658. RE: [DAWG-HSMM] Where to start

Yahoo group: DAWG-HSMM
Date: 2013-03-15 00:23:35 UTC
From: D R Mynatt
Topic: 2653 Message: 2658

Okay; I know I've seen the answer but at an old age, things do tend to slip.
Is the WRT54G router the only router that works in this MESH config?

I did a 'Semi-MESH' network at my last Ham Field day, linking 5 laptops
wireless (over a 50yd distance from each other in a STAR config) to a single
copy of a logging program I the central PC. They shared access to a single
database on the central PC.

Worked fine except for some of the firewalls, and different OSs, plus
Anti-Virus' software defeats took a while to get right.

Simple setup, really, but the firewall and anti-virus work-a-round was a
dog.

Dave
KA0SWT

-----Original Message-----
From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf
Of Rusty Haddock
Sent: Thursday, March 14, 2013 5:48 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Where to start

Bill Vodall wrote:
>
>Rusty is the real guru here but one point I'd like to emphasize is to
>get TWO of the WRT54G routers and upgrade both of them with the
>firmware. With two routers you'll see the mesh working and get a
>feel of what it's all about.

Better yet, git a bunch of friends and let them git their own routers then
everybody can start off CHEAP... like good HAMs should. :)

Then, get everybody with their laptops out into a large parking lot -- not
near the stores but way, WAY out where nobody but my Dad parks. :)

>Be careful though - nobody can stop with just two.....

Two's company, three's even better company, but at some point you have to
stop buying the clothes and start accessorizing and applicationizing!!! :-)

What we call "lollipops" make for cheap towers that go pret' anywhere.
Think 5-gallon bucket and lid, a 10-ft piece of PVC, sand or concrete for
weight, a few cable ties, maybe some PVC joints and/or joiners, and you fill
in the details for attaching the router to the PVC, running ethernet cable
and power up the PVC, and ballasting the bucket. A big, plastic kitty
litter box will also work, in place of the bucket.

And above all -- LEARN AND HAVE FUN!!! Remember -- this is HAM RADIO!

-Rusty-
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_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

Yahoo! Groups Links

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2013.0.2904 / Virus Database: 2641/6169 - Release Date: 03/13/13

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2013.0.2904 / Virus Database: 2641/6169 - Release Date: 03/13/13

2659. Invitation to the second Winlink & HSMM-MESH work session (fwd)

Yahoo group: DAWG-HSMM
Date: 2013-03-19 08:44:04 UTC
From: Rusty Haddock
Topic: 2659 Message: 2659

Folks,

What follows is an invite from the Grayson Co ARES folks to join them for another workshop for HSMM-MESH and Winlink. If you'd like to come up to Van Alstyne, Wade asks that you send your RSVP to him because he will need a head count to secure enough chairs and tables. Please do it ASAP. This will be on the first Tuesday of April, 6:30pm, at the Grayson College South Campus in Van Alstyne.

I would HIGHLY suggest that, if you're bringing equipment, you bring a power strip as well. More than one if you got 'em because these classrooms are not build with a ton of wall outlets.

See you there!

-Rusty-

---------- Forwarded message ----------
From: Wade Graves <wade.graves@...>
Date: Mon, Mar 18, 2013 at 11:31 AM
Subject: Invitation to the second Winlink & HSMM-MESH work session

Greetings ARES members!

It's time for us to meet again and continue (or start) work on our hardware for Winlink and HSMM-MESH! Please BRING YOUR GEAR and tools with you to the meeting. This is a working session with lots of time for experimentation and assistance. You'll get a lot out of it if you bring your materials with you. Make sure you label your equipment with your call sign or name -- this stuff all looks alike!

Meeting information:
Tuesday, April 2, 2013
Grayson College South Campus Room SB 108
1455 West Van Alstyne Parkway
Van Alstyne, TX 75495

Time -- 6:30-9pm.

Google map link:
http://maps.google.com/maps?q=1455+West+Van+Alstyne+Parkway,+Van+Alstyne,+Texas+75495&oe=utf-8&client=firefox-a&gl=us&t=m&vpsrc=0&hnear=1455+W+Van+Alstyne+Pkwy,+Van+Alstyne,+Texas+75495&z=16

Parking -- should be available relatively close to the South Campus building. Enter through the main entrance and turn left down the hallway. SB 108 will be the first room on the left past the restrooms.

RSVP -- Please reply to this message to RSVP. I will need a head count so we can make sure we have enough chairs and tables.

Materials needed -- In addition to your radios, routers, antennas, toolboxes, and other gear, please bring heavy duty extension cords/plug strips/UPS's, too. If you have a mobile HSMM-MESH unit for your vehicle, please plan to turn it on for a while during our work session.

Those who have purchased Raspberry Pi systems -- please bring them, the software, & your monitor/keyboard/mouse/etc. -- the computer lab will NOT be available to us that evening for hardware or software downloads since it is reserved for testing.

Winlink users -- please bring electronic copies of the Winlink/RMS message form -- downloadable from the Downloads section of our website: http://www.tecoares.org/ We will attempt to pass a message form across the HSMM-MESH network to a Winlink station running RMSExpress and then send that file to the EOC.

Looking forward to seeing you there!

73
Wade
KF5AU

----- End forwarded message -----

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2660. Re: [DAWG-HSMM] Invitation to the second Winlink & HSMM-MESH work session (fwd)

Yahoo group: DAWG-HSMM
Date: 2013-03-29 18:56:16 UTC
From: Rusty Haddock
Topic: 2659 Message: 2660

Just a reminder for next Tuesday, April 2nd, at the Grayson College South Campus on the outskirts of Van Alstyne (see the Google Map link below). Starting time will be 6:30pm. If you plan on attending *PLEASE* let Wade know as he needs a head count so proper facilities can be appropriated (namely tables and chairs)!

Bring your Winlink and HSMM-MESH gear! Raspberry Pi's too, if you have (at least) one!

-Rusty-

>---------- Forwarded message ----------
>From: Wade Graves <wade.graves@...>
>Date: Mon, Mar 18, 2013 at 11:31 AM
>Subject: Invitation to the second Winlink & HSMM-MESH work session
>
>
>Greetings ARES members!
>
>It's time for us to meet again and continue (or start) work on our hardware
>for Winlink and HSMM-MESH! Please BRING YOUR GEAR and tools with you to
>the meeting. This is a working session with lots of time for
>experimentation and assistance. You'll get a lot out of it if you bring
>your materials with you. Make sure you label your equipment with your call
>sign or name -- this stuff all looks alike!
>
>*Meeting information*:
>Tuesday, April 2, 2013
>Grayson College South Campus Room SB 108
>1455 West Van Alstyne Parkway
>Van Alstyne, TX 75495
>
>*Time* -- 6:30-9pm.
>
>*Google map link*:
>http://maps.google.com/maps?q=1455+West+Van+Alstyne+Parkway,+Van+Alstyne,+Texas+75495&oe=utf-8&client=firefox-a&gl=us&t=m&vpsrc=0&hnear=1455+W+Van+Alstyne+Pkwy,+Van+Alstyne,+Texas+75495&z=16
>
>*Parking* -- should be available relatively close to the South Campus
>building. Enter through the main entrance and turn left down the hallway.
>SB 108 will be the first room on the left past the restrooms.
>
>*RSVP* -- Please reply to this message to RSVP. I will need a head count so

>we can make sure we have enough chairs and tables.
>
>*Materials needed* -- In addition to your radios, routers, antennas,
>toolboxes, and other gear, please bring heavy duty extension cords/plug
>strips/UPS's, too. If you have a mobile HSMM-MESH unit for your vehicle,
>please plan to turn it on for a while during our work session.
>
>*Those who have purchased Raspberry Pi systems* -- please bring them, the
>software, & your monitor/keyboard/mouse/etc. -- the computer lab will NOT
>be available to us that evening for hardware or software downloads since it
>is reserved for testing.
>
>*Winlink users* -- please bring electronic copies of the Winlink/RMS
>message form -- downloadable from the Downloads section of our website:
>http://www.tecoares.org/ We will attempt to pass a message form across the
>HSMM-MESH network to a Winlink station running RMSExpress and then send
>that file to the EOC.
>
>Looking forward to seeing you there!
>
>73
>Wade
>KF5AU
>
>----- End forwarded message -----
>
>--
> _____ Rusty Haddock <=> AE5AE
>|\/ o \ o Way out yonder in the
>| (-< O o Van Alstyne (TX) Metropolitan Area
>|/__V__/ Math illiteracy affects 7 out of 5 people!
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>Yahoo! Groups Links
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|/__V__/ Math illiteracy affects 7 out of 5 people!

2661. Amazing cover letter for job seekers

Yahoo group: DAWG-HSMM
Date: 2013-04-29 06:30:20 UTC
From: debasish
Topic: 2661 Message: 2661

Cover letters are still necessary, and in a competitive market they can give you a serious edge if they are written and presented effectively.
Cover letters are a graceful l way to introduce yourself, to convey your personality and to impress a hiring manager with your experience and your writing skills, said Katy Piotrowski, an author of career books and a career counselor based in Fort Collins, Colo.
You can also tailor them to a specific company in ways that you cannot with a résumé.

There are many candidates having brilliant results but unfortunately they are not getting a single interview call..

Forget about job offers... many people see months fly by without

landing ONE decent job INTERVIEW.

The cover letter carry's an important part in job application.

Most job seekers don't have a clue about getting their "foot in

the door" for a job opening... not a clue.
It's no secret we're living in some of the most stressful and difficult times in years ☐ and today's job market is a killer.
Be A Best Seller - Treat your cover letter like a book jacket for your resume. The potential interviewer will "judge the book by its cover" when it comes to your cover letter and resume so make sure that yours is the best it can be.
Kerry Spivey
I'd like to Introduce Myself If: Cover Letters Today - A cover letter could be your only chance to catch the attention of hiring managers. This article gives you some tips to making a positive first impression with the cover letter.
Cover Letters are King - The Dos and Don'ts - A cover letter is the ticket to having your resume read. Writing a great cover letter has been made simpler with this article covering the does and don'ts of cover letter writing.
For more details contact: debindiaebazar@...
Please visit:
http://18e74tz96eogewb-z27epdp9ad.hop.clickbank.net/
http://tinyurl.com/d9xh6ev

2662. DECENT EARNINGS FROM PART TIME JOB

Yahoo group: DAWG-HSMM
Date: 2013-04-29 06:30:33 UTC
From: debasish
Topic: 2662 Message: 2662

Online surveys are easy, simple, interesting and rewarding. You do not need any qualification or technical skills to participate. Anyone with a computer and internet can take these surveys. Just share your opinion about products and services and get paid $2 to $50 per survey depending on the number of questions. These surveys will be sent via email to you by market research companies. After you complete this, you will be paid for your participation.

Who can take online surveys?
you need money to pay off your bills and loans. Taking paid online surveys is a sure-fire way to make handsome income in
Unemployed or employed people with need of extra money:

Either you are employed or unemployed spare time. You can do this work at any time you want and anywhere you want.

Fresh Graduates:

Fresh graduates looking for new job opportunities spend time in attending interviews and most time they are at home preparing resumes and applications. Of course they have spare time and this can be used to take online surveys and make nice income. They will be benefited in both ways; they spend spare time usefully and also can make money.

Moms:

If you are not working woman and feel bored at home you can take online surveys and make some extra money. This will help you to manage your increasing expenses. You do not need to expect your husband for all your expenses. You can make some extra money and spend on your perfumes, creams, cloths, shoes, cosmetics, medicines and bills. You can buy baby products for your babies. You can buy video games or laptop for your baby. Most important thing is that you need not worry for money to spend in beauty parlors.

College students:

College students can take these surveys and make good money to buy books, pay off their car, bike loans and exam fees. If you take online surveys in spare time you can buy your dream bike or car within few months. College students are targeted by many companies for new products such as mobile phones, laptops, iPods, bikes, shoes and many more. This gives them wonderful opportunity to share their opinion and get paid nicely.

Retired people:

Retired persons have much leisure time. Most times they read news papers, watch television or go for a walk in parks. Life becomes very slow for them. If you need something interesting in this old age, you can try paid surveys. You can take many interesting surveys in spare time and make money too. This money would help you buy your medicines or spend on a tour.

By this time you would have decided to take surveys in spare time. Now the question is how to get many surveys?

If you want to get many surveys and make money fast, you should join many survey companies. Joining 20 to 50 companies would help you make very nice income. There are many websites which provide link to 200 to 300 survey companies. You can check the following site which provides link to 300 online survey companies.

Visit the link for more information: http://paydotcom.net/r/97672/debubabu/26796380/ http://tinyurl.com/d2fhxrg

2663. HamCom workshop???

Yahoo group: DAWG-HSMM
Date: 2013-05-13 01:54:58 UTC
From: Rusty Haddock
Topic: 2663 Message: 2663

For those of you on these mailing list that are going to HamCom next month... What would you think about and, more importantly, would you attend a Broadband-Hamnet workshop late Friday afternoon? Wuz thinking nothing scripted with slides per se but more of a place to gather, ask questions, hopefully get answers, maybe show off what you've been doing.

If I get enough "I'll show up" responses I'll see about getting a room reserved and on the schedule. Thinking about the 4-6pm time frame.

Lemme know soon!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
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|/__V__/ Math illiteracy affects 7 out of 5 people!

2664. RE: [DAWG-HSMM] HamCom workshop???

Yahoo group: DAWG-HSMM
Date: 2013-05-13 02:35:05 UTC
From: Bill Hagebusch
Topic: 2663 Message: 2664

I'll show up

Bill

KE5ZVF

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Rusty Haddock
Sent: Sunday, May 12, 2013 8:55 PM
To: austin-hsmm-development@yahoogroups.com; dawg-hsmm@yahoogroups.com
Subject: [DAWG-HSMM] HamCom workshop???

For those of you on these mailing list that are going to HamCom next month... What would you think about and, more importantly, would you attend a Broadband-Hamnet workshop late Friday afternoon? Wuz thinking nothing scripted with slides per se but more of a place to gather, ask questions, hopefully get answers, maybe show off what you've been doing.

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2665. RE: [DAWG-HSMM] HamCom workshop???

Yahoo group: DAWG-HSMM
Date: 2013-05-13 04:34:12 UTC
From: Bob DeVance
Topic: 2663 Message: 2665

Hi, Rusty,

Great idea! I'd like to attend but have volunteer duty for HamCom from 3pm to 5pm Friday. If you run 4 to 6, maybe I can come on in after I get loose.

Thanks,

Bob

Bob DeVance, Computer Consultant

Amateur Radio Call Sign: K5CRX

R & D Consulting

(972) 824-3484

www.rdcons.com <http://www.rdcons.com/>

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Rusty Haddock
Sent: Sunday, May 12, 2013 8:55 PM
To: austin-hsmm-development@yahoogroups.com; dawg-hsmm@yahoogroups.com
Subject: [DAWG-HSMM] HamCom workshop???

For those of you on these mailing list that are going to HamCom next month... What would you think about and, more importantly, would you attend a Broadband-Hamnet workshop late Friday afternoon? Wuz thinking nothing scripted with slides per se but more of a place to gather, ask questions, hopefully get answers, maybe show off what you've been doing.

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Lemme know soon!

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2666. Re: [DAWG-HSMM] HamCom workshop???

Yahoo group: DAWG-HSMM
Date: 2013-05-13 18:24:18 UTC
From: Michael Riedel
Topic: 2663 Message: 2666

I would plan on attending.

Mike, KE5VCT

From: Rusty Haddock
Sent: Sunday, May 12, 2013 8:54 PM
To: austin-hsmm-development@yahoogroups.com ; dawg-hsmm@yahoogroups.com
Subject: [DAWG-HSMM] HamCom workshop???

For those of you on these mailing list that are going to HamCom next month... What would you think about and, more importantly, would you attend a Broadband-Hamnet workshop late Friday afternoon? Wuz thinking nothing scripted with slides per se but more of a place to gather, ask questions, hopefully get answers, maybe show off what you've been doing.

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Lemme know soon!

-Rusty-
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|/__V__/ Math illiteracy affects 7 out of 5 people!

2667. Hom Com

Yahoo group: DAWG-HSMM
Date: 2013-05-13 23:48:01 UTC
From: w0uo
Topic: 2667 Message: 2667

Ham Com Get Together:

Y'all might consider 5 pm to 7 pm as the DFW Contest Group and Lone Star DX Association will be hosting a cash bar happy hour while the banquet is being set up.

Jim Spaulding W0UO

2668. Re: [DAWG-HSMM] HamCom workshop???

Yahoo group: DAWG-HSMM
Date: 2013-05-14 01:46:06 UTC
From: Ralph Tullo
Topic: 2663 Message: 2668

I'm interested.

Ralph, N0LO

Rusty Haddock <rusty@fe2o3.lonestar.org> wrote:

>For those of you on these mailing list that are going to HamCom next
>month... What would you think about and, more importantly, would you
>attend a Broadband-Hamnet workshop late Friday afternoon? Wuz thinking
>nothing scripted with slides per se but more of a place to gather, ask
>questions, hopefully get answers, maybe show off what you've been doing.
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2669. Re: [DAWG-HSMM] HamCom workshop???

Yahoo group: DAWG-HSMM
Date: 2013-05-15 08:35:09 UTC
From: Rusty Haddock
Topic: 2663 Message: 2669

I have requested a 2-hour block of time for the "HSMM-MESH Workshop" on Friday at either 4-6pm or 5-7pm. We'll see, when the official schedule is posted, which it is.

See you there!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2670. Fwd: Batteries

Yahoo group: DAWG-HSMM
Date: 2013-05-17 20:18:09 UTC
From: Kilgore
Topic: 2670 Message: 2670

John is removing 12 v 12 AH batteries from UPS service at the hospital.

Please contact him direct if you want a few.

Doug Kilgore KD5OUG

-------- Original Message --------
Subject: Batteries
Date: Fri, 17 May 2013 06:21:13 GMT
From: j-wdistributers@... <j-wdistributers@...>
To: kilgore1317@...

Hey Doug,
Just took out some UB 12120FR 12v 12Ah Batteries. How many may I put
you down for?
Will bring them this Sat.or will set up a time next week to get them to you.
john west K5JDW

2671. RE: [DAWG-HSMM] Fwd: Batteries

Yahoo group: DAWG-HSMM
Date: 2013-05-18 00:12:26 UTC
From: Bob DeVance
Topic: 2670 Message: 2671

Hey, John,

I'd like a couple or three of the batteries if they're still available. I'll be picking up the communications trailer after the WildRide about three tomorrow (Sat.). You can leave them in the comm trailer if that's convenient or I can arrange to pick them up at your convenience.

Thanks,

Bob

Bob DeVance, Computer Consultant

Amateur Radio Call Sign: K5CRX

R & D Consulting

(972) 824-3484

www.rdcons.com <http://www.rdcons.com/>

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Kilgore
Sent: Friday, May 17, 2013 3:18 PM
To: HSMM Group
Cc: j-wdistributers@...
Subject: [DAWG-HSMM] Fwd: Batteries

John is removing 12 v 12 AH batteries from UPS service at the hospital.

Please contact him direct if you want a few.

Doug Kilgore KD5OUG

-------- Original Message --------

Subject:

Batteries

Date:

Fri, 17 May 2013 06:21:13 GMT

From:

j-wdistributers@... <mailto:j-wdistributers@...>
<j-wdistributers@...>

To:

kilgore1317@...

Hey Doug,

Just took out some UB 12120FR 12v 12Ah Batteries. How many may I put you down for?

Will bring them this Sat.or will set up a time next week to get them to you.

john west K5JDW

2672. Re: [DAWG-HSMM] Fwd: Batteries

Yahoo group: DAWG-HSMM
Date: 2013-05-18 00:46:34 UTC
From: Noah Chalker
Topic: 2670 Message: 2672

I would take one. It's hard for me to get around though. If I can have one that'll be awesome. Bob, could you possibly get one and get it to me at a later time?

From,
Noah Chalker ke5vql

On May 17, 2013, at 19:12, "Bob DeVance" <bdevance@...> wrote:

> Hey, John,
>
> I'd like a couple or three of the batteries if they're still available. I'll be picking up the communications trailer after the WildRide about three tomorrow (Sat.). You can leave them in the comm trailer if that's convenient or I can arrange to pick them up at your convenience.
>
> Thanks,
>
> Bob
>
>
>
> Bob DeVance, Computer Consultant
>
> Amateur Radio Call Sign: K5CRX
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> From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Kilgore
> Sent: Friday, May 17, 2013 3:18 PM
> To: HSMM Group
> Cc: j-wdistributers@...
> Subject: [DAWG-HSMM] Fwd: Batteries
>
>
>
>
>
> John is removing 12 v 12 AH batteries from UPS service at the hospital.
>
> Please contact him direct if you want a few.

>
> Doug Kilgore KD5OUG
>
>
>
> -------- Original Message --------
>
> Subject:
>
> Batteries
>
> Date:
>
> Fri, 17 May 2013 06:21:13 GMT
>
> From:
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> j-wdistributers@... <j-wdistributers@...>
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> To:
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> kilgore1317@...
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> Will bring them this Sat.or will set up a time next week to get them to you.
>
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>
> john west K5JDW
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2673. HSMM-MESH IP Cameras, range and software questions

Yahoo group: DAWG-HSMM
Date: 2013-05-21 01:38:11 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2663 Message: 2673

Hi Folks!
Just curious.anyone have a "favorite" IP camera that they have used on HSMM-MESH?

We have been testing here in Bergen and Passaic Counties, in New Jersey and our "stock" antenna tests have been promising, covering about a quarter mile with stock antennas, but we were wondering what folks found to be the best way to extend the range? Specifically, what antennas and/or bi-directional amplifiers do folks use?

Also, has anyone heard about the new software release that is scheduled for this quarter?

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

2674. Re: [DAWG-HSMM] HSMM-MESH IP Cameras, range and software questions

Yahoo group: DAWG-HSMM
Date: 2013-05-21 03:06:18 UTC
From: Mark J Culross
Topic: 2663 Message: 2674

Gordon:

In the files section of the group, you can take a look at the document that I wrote about using the Foscam FI8918W IP camera on HSMM-MESH (you can try the link below, but be forewarned that Yahoo really likes to mangle links !!):

<http://groups.yahoo.com/group/DAWG-HSMM/Adding%20the%20FOSCAM%20FI8918W%20to%20your%20mesh%20network%20-%2020111111.pdf>

I've had good luck putting this camera on our HSMM-MESH during Field Day activities, etc. Let me know if you have any questions on applying this particular IP camera.

Good luck & have fun !!

Mark J Culross
KD5RXT

From: "J.Gordon Beattie, Jr., W2TTT" <w2ttt@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Mon, May 20, 2013 8:38:18 PM
Subject: [DAWG-HSMM] HSMM-MESH IP Cameras, range and software questions

Hi Folks!
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Also, has anyone heard about the new software release that is scheduled for this quarter?

Thanks & 73,
Gordon Beattie, W2TTT
201.314.6964

2675. Re: [DAWG-HSMM] HSMM-MESH IP Cameras, range and software questions

Yahoo group: DAWG-HSMM
Date: 2013-05-21 03:13:48 UTC
From: Mark J Culross
Topic: 2663 Message: 2675

Whoops, I messed up the link this time, not Yahoo !! Try the corrected link below . . .

Mark J Culross
KD5RXT

From: Mark J Culross <mjculross@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Mon, May 20, 2013 10:06:21 PM
Subject: Re: [DAWG-HSMM] HSMM-MESH IP Cameras, range and software questions

Gordon:

In the files section of the group, you can take a look at the document that I wrote about using the Foscam FI8918W IP camera on HSMM-MESH (you can try the link below, but be forewarned that Yahoo really likes to mangle links !!):

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Good luck & have fun !!

Mark J Culross
KD5RXT

From: "J.Gordon Beattie, Jr., W2TTT" <w2ttt@att.net>
To: DAWG-HSMM@yahoogroups.com
Sent: Mon, May 20, 2013 8:38:18 PM
Subject: [DAWG-HSMM] HSMM-MESH IP Cameras, range and software questions

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Thanks & 73,
Gordon Beattie, W2TTT
201.314.6964

2676. Re: [DAWG-HSMM] HSMM-MESH IP Cameras, range and software questions

Yahoo group: DAWG-HSMM
Date: 2013-05-21 13:25:58 UTC
From: Dallas KD4HNX
Topic: 2663 Message: 2676

Mark
You forgot the link the 2nd time...

To all,
Here is link to the MESH DAWG yahoogroup...
http://tech.groups.yahoo.com/group/DAWG-HSMM/files/

Look in the files area for the file "Adding the FOSCAM~".

73 Dallas, KD4HNX
http://www.austinhams.com
http://www.arrlstx.org

No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!

--- On Mon, 5/20/13, Mark J Culross <mjculross@...> wrote:

From: Mark J Culross <mjculross@...t>
Subject: Re: [DAWG-HSMM] HSMM-MESH IP Cameras, range and software questions
To: DAWG-HSMM@yahoogroups.com
Date: Monday, May 20, 2013, 10:13 PM

Whoops, I messed up the link this time, not Yahoo !! Try the corrected link below . . .

Mark J Culross
KD5RXT

From: Mark J Culross <mjculross@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Mon, May 20, 2013 10:06:21 PM
Subject: Re: [DAWG-HSMM] HSMM-MESH IP Cameras, range and software questions

Gordon:

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KD5RXT

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Thanks & 73,
Gordon Beattie, W2TTT
201.314.6964

2677. Re: [DAWG-HSMM] HSMM-MESH IP Cameras, range and software questions

Yahoo group: DAWG-HSMM
Date: 2013-05-21 15:43:43 UTC
From: Mark J Culross
Topic: 2663 Message: 2677

Dallas:

Actually, as I *tried* to indicate, I corrected the link in teh original
message . . . sorry I wasn't 100% clear !!

_____
From: Dallas KD4HNX <mylastname@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Tue, May 21, 2013 8:26:02 AM
Subject: Re: [DAWG-HSMM] HSMM-MESH IP Cameras, range and software questions

Mark
You forgot the link the 2nd time...

To all,
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http://tech.groups.yahoo.com/group/DAWG-HSMM/files/

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http://www.arrlstx.org

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--- On Mon, 5/20/13, Mark J Culross <mjculross@...> wrote:

>From: Mark J Culross <mjculross@...>
>Subject: Re: [DAWG-HSMM] HSMM-MESH IP Cameras, range and software questions
>To: DAWG-HSMM@yahoogroups.com
>Date: Monday, May 20, 2013, 10:13 PM
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>
>Mark J Culross
>KD5RXT
>
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From: Mark J Culross <mjculross@...>
>To: DAWG-HSMM@yahoogroups.com
>Sent: Mon, May 20, 2013 10:06:21 PM
>Subject: Re: [DAWG-HSMM] HSMM-MESH IP Cameras, range and software questions
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><http://groups.yahoo.com/group/DAWG-HSMM/files/Adding%20the%20FOSCAM%20FI8918W%20to%20you
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>Good luck & have fun !!
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>Mark J Culross
>KD5RXT
>
>
>
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From: "J.Gordon Beattie, Jr., W2TTT" <w2ttt@...>
>To: DAWG-HSMM@yahoogroups.com
>Sent: Mon, May 20, 2013 8:38:18 PM
>Subject: [DAWG-HSMM] HSMM-MESH IP Cameras, range and software questions
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>We have been testing here in Bergen and Passaic Counties, in New Jersey and our
>“stock” antenna tests have been promising, covering about a quarter mile with
>stock antennas, but we were wondering what folks found to be the best way to
>extend the range? Specifically, what antennas and/or bi-directional amplifiers
>do folks use?
>
>Also, has anyone heard about the new software release that is scheduled for this
>quarter?
>
>Thanks & 73,

>Gordon Beattie, W2TTT
>201.314.6964
>

2678. Re: [DAWG-HSMM] HamCom workshop???

Yahoo group: DAWG-HSMM
Date: 2013-05-25 07:25:09 UTC
From: Rusty Haddock
Topic: 2663 Message: 2678

Rusty Haddock wrote:
>I have requested a 2-hour block of time for the "HSMM-MESH Workshop" on
>Friday at either 4-6pm or 5-7pm. We'll see, when the official schedule
>is posted, which it is.

FYI, I just pulled down the latest brochure from HamCom.org. With regards
to Broadband-HamNet/HSMM-MESH, my HSMM-MESH Workshop is currently scheduled
for 4-6pm on Friday in Fairview 1 & 2.

My "Applications & Accessories..." talk is currently scheduled for 3pm
on Saturday in the Hillhaven Room. I believe this is the same room
that I tried to do this talk in the dark last year. Glenn Currie's
"HSMM-MESH Update" is scheduled to follow at 4pm in the same room.

Watch for newer editions of the HamCom brochure! Who knows what may
change between now and then.

See you there!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2679. Broadband-Hamnet/HSMM-Mesh Workshop at HamCom (Plano, TX)

Yahoo group: DAWG-HSMM
Date: 2013-06-04 21:28:07 UTC
From: Rusty Haddock
Topic: 2679 Message: 2679

Just to let y'all know, I will be holding a Broadband-Hamnet/HSMM-Mesh Workshop on Friday afternoon at HamCom. The time will be 4-6pm in Fairview 1 & 2 according to the latest brochure. Come when you can. Laptops, routers, extension cords, and any mesh-related projects that you're working on will be welcome!

The idea here is we'll try to help you if you're having problems. This will also be a good chance to show off your handiwork. See you there!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2680. New release of ngIRCd package for Broadband-Hamnet

Yahoo group: DAWG-HSMM
Date: 2013-06-08 08:27:17 UTC
From: Rusty Haddock
Topic: 2680 Message: 2680

Folks,
If you have interest in the IRC server that I recompiled for the WRT54G/GL/GS with our Broadband-Hamnet firmware then you should know that I have recently made a new release. The prominent features of this release are:

1) Upgrade of ngircd from version 18 to version 20.2. Not many changes, maybe a few bug fixes. For our needs it should work no different than before. I just thought I'd give y'all an updated version.

2) MUCH EASIER installation! The package is now in our repository so you can use the Administrative page to download the package provided your node has access to an internet gateway.

3) No need to use shell and 'vi' editor to add config tweaks to get running. Yes, you can still edit the config file if you like but it's not necessary to get the ngircd program running on your WRT54G!

As a matter of fact, installation of the ngircd package not only enables the service but starts it running as well! The only thing you need to do afterwards is punch a hole in the firewall and you KNOW that you can do that with our web interface!

4) New version of the installation instructions available on the Broadband-Hamnet website at:

http://hsmm-mesh.org/applications-for-the-mesh/118-internet-relay-chat-irc.html

Enjoy!
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2681. Big Bend 50 race use of HSMM-MESH(tm) cover story of July QST (fwd)

Yahoo group: DAWG-HSMM
Date: 2013-06-11 19:15:16 UTC
From: Rusty Haddock
Topic: 2681 Message: 2681

This just in!

----- Forwarded message from Glenn Currie <glenn.kd5mfw@...> -----

The July 2013, QST magazine contains an article on page 68 on the use of HSMM-MESH(TM) / Broadband-Hamnet(TM) in support of the Big Bend 50 Ultramarathon foot race.

Beyond that, it is the cover story of the July QST. Our Austin mesh crew made the cover!

Some of you may have known K8OCL, John Champa, who was the first ARRL HSMM Working Group chairman. He is now a Silent Key.

He had a photo taken of him back in 2003, with a "dream" photo-shop edition of QST in his hands with HSMM on the cover. He worked hard for many years to help hams realize that we have been gifted with some mass produced consumer gear (like the LInksys WRT54G) that allows hams to get into wireless broadband radio at prices of a lifetime!

I am glad to see that we managed to carry on his efforts with HSMM gear and have actually made the cover of QST, 10 years after he held up his "dream" copy of QST.

Your printed copy of the July QST should arrive soon. Please do what you can to help raise interest in HSMM efforts in your area. It would make John happy to know that the word is getting out - cheap ham gear with massive bandwidth capability, so hams can have their own version of a wireless broadband tool.

-Glenn
KD5MFW

----- End forwarded message -----

--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2682. Broadband-Hamnet(TM) wins IAEM US Council and Global Awards (fwd)

Yahoo group: DAWG-HSMM
Date: 2013-07-02 03:26:57 UTC
From: Rusty Haddock
Topic: 2682 Message: 2682

[Just FYI, First a QST cover now Broadband-Hamnet has won its FIRST Award!
-Rusty-]

IAEM-USA Announces Winners of the 2013 IAEM-USA Awards Competition

July 1, 2013 (Falls Church, Va.) The USA Council of the International Association of Emergency Managers (IAEM) has announced the winners of its IAEM-USA 2013 Awards Competition. The awards will be presented at the IAEM 61st Annual Conference & EMEX 2013, Oct. 25-30, 2013, in Reno, Nevada. IAEM-USA is pleased to announce these awards:

2013 IAEM Technology & Innovation Awards:

Technology & Innovation Award (Division 2, State/Regional National Government, International, or Non-Profit Organization)

o Broadband HamnetTM, developed by Amateur Radio operators to provide Amateur Radio operators a high speed digital wireless communications mesh network. The firmware is available at no charge via the project website at www.hsmm-mesh.org. This entry went on to win the IAEM-Global Technology & Innovation Award, Division 2.

2013 IAEM-Global Technology & Innovation Awards:
Division 2 (regional/state/national/nonprofit): Broadband HamnetTM, developed to provide Amateur Radio operators a high speed digital wireless communications mesh network.

Full News releases at :
http://www.iaem.com/documents/IAEM-USA-Awards-News-Release-2013.pdf
http://www.iaem.com/documents/IAEM-Global-Awards-News-Release-2013.pdf

73
Jim
K5KTF
Webmaster & Evangelist - Broadband-Hamnet(TM)
www.hsmm-mesh.org

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2683. North Jersey Amateur Radio Operators Prepare for Fireworks Display Support Activity

Yahoo group: DAWG-HSMM
Date: 2013-07-02 04:28:33 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2682 Message: 2683

In preparation for the upcoming fireworks display now, rescheduled for Sunday, July 7th, several Amateur Radio Operators from Bergen and Passaic Counties are combining efforts to put up an Amateur Radio-based HSMM-MESH or "mesh" network across the Fair Lawn, New Jersey Memorial Park site. Their "mesh" network effort will include several IP cameras and Internet Relay Chat capabilities, as well as a link to an off-site Internet gateway, all supported on an independent network.

These "Ham" radio operators will be using conventional two meter FM portables and mobiles in the park to provide entrance point status and safety information to the Fireworks Committee, but they are providing additional functionality this year to help address other issues that have come up in the past.

First, the cameras will provide some sense of what is going on in the crowd from inside the net control and committee management post. We have tested 30 frames per second of VGA quality video to five simultaneous clients of a camera, so it will be interesting to see this once again with other traffic on board. This is a valuable addition to the situational aware package that Radio Amateurs can bring to an event such as this.

Second, there has been a persistent issue with the ability to effectively communicate when there is a high noise level from the music and the exploding fireworks. Text messaging is a good solution, but the cell phones get jammed by the public during the event. The solution is the deployment of several on-site Internet Relay Chat (IRC) servers installed on a small Raspberry Pi controllers along with laptops and netbooks running the IceChat V.7 client around the park. By having several chat servers, we can ensure that if there is an issue, then we can switch to a backup located elsewhere on the mesh. In fact, the IceChat clients allow for simultaneous connections to several servers enabling a rapid switchover.

Finally the Internet gateway will be set up away from the crowd in the core of the park to allow for a more effective "reach" to the local cell site. This gateway will be used to gather local weather information before and during the event as part of our situational awareness package.

It should be an great test of the work that the team has been developing for the last several months, and demonstrate, once again, that Amateur Radio is alive and well and capable of providing effective networks in support of public gatherings and in emergency situations.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

2684. Re: [DAWG-HSMM] North Jersey Amateur Radio Operators Prepare for Fireworks Display Support Activity

Yahoo group: DAWG-HSMM
Date: 2013-07-02 12:41:56 UTC
From: Will
Topic: 2682 Message: 2684

Hello to the group,

Just to let you know we our group Open ircDDB (QuadNet IRC Network) for digital Amateur Radio have 4 IRC servers spreaded accross the USA built to handle Dstar traffic. One of the servers is located in Strasburg, PA. The system is Open and if you want to run D-Star radio you are more than welcome. We call it open because we don't required Club Call signs or any registration. As long as you are an Amateur Radio License operation you or grant to have access to the system. Al you have to do is point your gateway to one of the four servers with your issue FCC call sign and work the network. You can take advantage of the very fast routing on the network. Anyway if you want more information you are more than welcome to contact me. 73 and the best of luck with you Hamnet Setup.

Will/W4WWM

On 7/1/2013 11:28 PM, J.Gordon Beattie, Jr., W2TTT wrote:
>
> In preparation for the upcoming fireworks display now, rescheduled for
> Sunday, July 7th , several Amateur Radio Operators from Bergen and
> Passaic Counties are combining efforts to put up an Amateur
> Radio-based HSMM-MESH or "mesh" network across the Fair Lawn, New
> Jersey Memorial Park site. Their "mesh" network effort will include
> several IP cameras and Internet Relay Chat capabilities, as well as a
> link to an off-site Internet gateway, all supported on an independent
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>
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> portables and mobiles in the park to provide entrance point status and
> safety information to the Fireworks Committee, but they are providing
> additional functionality this year to help address other issues that
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> crowd from inside the net control and committee management post. We
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> this once again with other traffic on board. This is a valuable
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> solution is the deployment of several on-site Internet Relay Chat
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> By having several chat servers, we can ensure that if there is an
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>
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> core of the park to allow for a more effective "reach" to the local
> cell site. This gateway will be used to gather local weather
> information before and during the event as part of our situational
> awareness package.
>
> It should be an great test of the work that the team has been
> developing for the last several months, and demonstrate, once again,
> that Amateur Radio is alive and well and capable of providing
> effective networks in support of public gatherings and in emergency
> situations.
>
> //Thanks & 73,//
>
> //Gordon Beattie, W2TTT//
>
> //201.314.6964//////
>
>

2685. Re: [DAWG-HSMM] Broadband-Hamnet(TM) wins IAEM US Council and Global Awards

Yahoo group: DAWG-HSMM
Date: 2013-07-06 00:25:54 UTC
From: Rusty Haddock
Topic: 2682 Message: 2685

Rusty Haddock wrote:
>[Just FYI, First a QST cover now Broadband-Hamnet has won its FIRST Award!
> -Rusty-]
>
> IAEM-USA Announces Winners of the 2013 IAEM-USA Awards Competition
>
>July 1, 2013 (Falls Church, Va.) The USA Council of the International
>Association of Emergency Managers (IAEM) has announced the winners of
>its IAEM-USA 2013 Awards Competition. The awards will be presented at
>the IAEM 61st Annual Conference & EMEX 2013, Oct. 25-30, 2013, in
>Reno, Nevada. IAEM-USA is pleased to announce these awards:

And the ARRL is passing out the news as well:

http://www.arrl.org/news/view/broadband-hamnet-wins-international-association-of-emergency-managers-awards

I've been told it's on the ARRL front page but right now their webserver is dishing out garbage.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2686. Re: [DAWG-HSMM] Digest Number 933

Yahoo group: DAWG-HSMM
Date: 2013-07-06 12:39:09 UTC
From: Raymond Woodward K3VSA
Topic: 2686 Message: 2686

It's there alright:
http://www.arrl.org/news/broadband-hamnet-wins-international-association-of-emergency-managers-awards
Congratulations! Now, if we could just get it to work up here amongst all our trees...

-Raymond "Woody" Woodward K3VSA
ARRL Public Information Coordinator for North Carolina
(an ARRL-trained Public Information Officer)

http://www.ncarrl-pio.org

Canst thou send out lightnings, that they may go and say to you, "Here we are?" - Job 38:35
----- Original Message -----
From: DAWG-HSMM@yahoogroups.com
Sent: 07/06/13 07:36 AM
To: DAWG-HSMM@yahoogroups.com
Subject: [DAWG-HSMM] Digest Number 933

http://groups.yahoo.com/;_ylc=X3oDMTJlcHN0YWp0BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTM3MzExMDU3MA--
Dallas Area Working Group - HSMM Group http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJlN2puazMxBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDaGRyBHNsawNocGgEc3RpbWUDMTM3MzExMDU2OQ--

1 New Message
==========

Digest #933

1a
Re: Broadband-Hamnet(TM) wins IAEM US Council and Global Awards by "Rusty Haddock" kd4wlz

Message
=======

1a
--

Re: Broadband-Hamnet(TM) wins IAEM US Council and Global Awards http://groups.yahoo.com/group/DAWG-HSMM/message/2685;_ylc=X3oDMTJyaTIxdHZqBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMyNjg1BHNlYwNkbXNnBHNsawN2bXNnBHN0aW1lAzEzNzMxMTA1NzA-

Fri Jul 5, 2013 5:25 pm (PDT) . Posted by:
rusty@...?subject=Re%3A%20Broadband-Hamnet%28TM%29%20wins%20IAEM%20US%20Council%20and%20Global%20Awards
Rusty Haddock wrote:
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> -Rusty-]

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rusty@...?subject=Re%3A%20Broadband-Hamnet%28TM%29%20wins%20IAEM%20US%20Council%20and%20Global%20Awards . DAWG-HSMM@yahoogroups.com?subject=Re%3A%20Broadband-Hamnet%28TM%29%20wins%20IAEM%20US%20Council%20and%20Global%20Awards . Reply via Web Post http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJyYTZ1b2NlBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMyNjg1BHNlYwNkbXNnBHNsawNycGx5BHN0aW1lAzEzNzMxMTA1NzA-?act=reply&messageNum=2685 . All Messages (4) http://groups.yahoo.com/group/DAWG-HSMM/message/2682;_ylc=X3oDMTM2YmU4MWVvBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMyNjg1BHNlYwNkbXNnBHNsawN2dHBjBHN0aW1lAzEzNzMxMTA1NzAEdHBjSWQDMjY4Mg-- . Top ^

Visit Your Group http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJmaWczdmk3BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzEzNzMxMTA1NzA-
> http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJmaWczdmk3BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzEzNzMxMTA1NzA-

View All Topics http://groups.yahoo.com/group/DAWG-HSMM/messages;_ylc=X3oDMTJndDNqM2M2BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZG1zZwRzbGsDYXRwYwRzdGltZQMxMzczMTEwNTcw?xm=1&m=p&tidx=1
> http://groups.yahoo.com/group/DAWG-HSMM/messages;_ylc=X3oDMTJndDNqM2M2BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZG1zZwRzbGsDYXRwYwRzdGltZQMxMzczMTEwNTcw?xm=1&m=p&tidx=1

Create New Topic http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJnbmIxdG1mBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZG1zZwRzbGsDbnRwYwRzdGltZQMxMzczMTEwNTcw
> http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJnbmIxdG1mBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZG1zZwRzbGsDbnRwYwRzdGltZQMxMzczMTEwNTcw

1 New Members http://groups.yahoo.com/group/DAWG-HSMM/members;_ylc=X3oDMTJnZzAxNXUxBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDdnRsBHNsawN2bWJycwRzdGltZQMxMzczMTEwNTcw?o=6
> http://groups.yahoo.com/group/DAWG-HSMM/members;_ylc=X3oDMTJnZzAxNXUxBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDdnRsBHNsawN2bWJycwRzdGltZQMxMzczMTEwNTcw?o=6

We are making changes based on your feedback, Thank you !
ygroupsnotifications@yahoogroups.com?subject=Feedback%20on%20the%20redesigned%20daily%20digest%20v4
ygroupsnotifications@yahoogroups.com?subject=Feedback%20on%20the%20redesigned%20daily%20digest%20v4

The Yahoo! Groups Product Blog
Check it out! http://www.ygroupsblog.com/blog/
> http://www.ygroupsblog.com/blog/

http://groups.yahoo.com/;_ylc=X3oDMTJlcHN0YWp0BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTM3MzExMDU3MA--

CHANGE SETTINGS http://groups.yahoo.com/group/DAWG-HSMM/join;_ylc=X3oDMTJnMTA4NXR1BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNzdG5ncwRzdGltZQMxMzczMTEwNTcw
> http://groups.yahoo.com/group/DAWG-HSMM/join;_ylc=X3oDMTJnMTA4NXR1BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNzdG5ncwRzdGltZQMxMzczMTEwNTcw

TERMS OF USE http://docs.yahoo.com/info/terms/
> http://docs.yahoo.com/info/terms/

DAWG-HSMM-unsubscribe@yahoogroups.com?subject=Unsubscribe
DAWG-HSMM-unsubscribe@yahoogroups.com?subject=Unsubscribe

2687. Re: [DAWG-HSMM] Digest Number 933

Yahoo group: DAWG-HSMM
Date: 2013-07-06 15:56:53 UTC
From: Dallas KD4HNX
Topic: 2686 Message: 2687

Looks like there have been so many hits on the ARRL site about the MESH cover story and now the two awards that the ARRL site is overloaded and unresponsive...

Way to go guys... Take the cover, win national and international awards, and then overload HQ's website...

73 Dallas, KD4HNX

http://www.austinhams.com

http://www.arrlstx.org

No politician or scholar assured your freedoms.

A Soldier, Sailor, Marine, or Airman did!

--- On Sat, 7/6/13, Raymond Woodward K3VSA <k3vsa@...> wrote:

From: Raymond Woodward K3VSA <k3vsa@...>
Subject: Re: [DAWG-HSMM] Digest Number 933
To: DAWG-HSMM@yahoogroups.com
Date: Saturday, July 6, 2013, 7:39 AM

It's there alright: http://www.arrl.org/news/broadband-hamnet-wins-international-associati on-of-emergency-managers-awards Congratulations! Now, if we could just get it to work up here amongst all our trees...

-Raymond "Woody" Woodward K3VSA
ARRL Public Information Coordinator for North Carolina
(an ARRL-trained Public Information Officer)

http://www.ncarrl-pio.org

Canst thou send out lightnings, that they may go and say to you, "Here we are?" - Job 38: 35
 ----- Original Message -----From: DAWG-HSMM@yahoogroups.comSent: 07/06/13 07:36 AMTo: DAWG-HSMM@yahoogroups.comSubject: [DAWG-HSMM] Digest Number 933 Dallas Area Working Group - HSMM Group 1 New MessageDigest #933 1aRe: Broadband-Hamnet(TM) wins IAEM US Council and Global Awards by "Rusty Haddock" kd4wlz Message1aRe: Broadband-Hamnet(TM) wins IAEM US Council and Global Awards Fri Jul 5, 2013 5:25 pm (PDT) . Posted by:"Rusty Haddock" kd4wlz Rusty Haddock wrote:
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>Reno, Nevada. IAEM-USA is pleased to announce these awards:

And the ARRL is passing out the news as well:

http://www.arrl.org/news/view/broadband-hamnet-wins-international-association-of-emergency-managers-awards

I've been told it's on the ARRL front page but right now their webserver
is dishing out garbage.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

Reply to sender . Reply to group . Reply via Web Post . All Messages (4) . Top ^ Visit Your Group > View All Topics > Create New Topic > 1 New Members > We are making changes based on your feedback, Thank you !Submit Feedback > The Yahoo! Groups Product BlogCheck it out! > CHANGE SETTINGS > TERMS OF USE > UNSUBSCRIBE >

2688. Amateur Radio Experimenters Corner - New Yahoo Group☐

Yahoo group: DAWG-HSMM
Date: 2013-07-15 11:34:30 UTC
From: KJ
Topic: 2688 Message: 2688

Amateur Radio Experimenters Corner - New Yahoo Groupâ☐☐
<http://groups.yahoo.com/group/Amateur_Radio_Experimenters_Corner/> The
charter and purpose for this new yahoo group is to further and advance
the exchange of information and cooperation among fellow members so as
to best promote radio related experimentation, knowledge, sharing,
cooperation and individual operating efficiency, which is intended to
result in advancing general levels of interest and the overall welfare
of Amateur Radio throughout the world and our universe at large.
Interestingly and uniquely our group is actively involved with improving
inter-operable communications between the various bands and modes of
operation such as Analog: LSB,USB,SSB,AM,FM-w/n, etc..|Digital: P25,
PSK, FSK, DMR MotoTRBO, NXDN, IRLP, EchoLink, AllStar, Codec-2,
D-STAR® (IRCDDBGateway, HotSpots, Node Adapters, Dplus, DV Dongles,
DVAP's, D-RATS, Digital Networks - ircDDB, G2 and their Reflectors ☐
XRF,DCS,CCS,REF), HSMM-MESH, etc..

```
Keep in mind that we are still busy working at assembling content by
adding useful links, files, photographs, etc... of which over time will
only become more improved and vast for your reference. Importantly it is
also worth noting that we now offer and maintain a geographically vast
and growing redundant fault tolerant network of linked and bridged radio
repeaters consisting of multiple modes of operation access and bands for
radio communication that you will find very convenient and handy when
gaining access via your own radio, thus allowing you to operate in your
own personal favorite mode of operation and at the same time still be
able to seamlessly inter-operate with the many other modes working on
our network.
```

2689. WRT54GL's on sale @ NewEgg.com

Yahoo group: DAWG-HSMM
Date: 2013-07-17 04:02:07 UTC
From: Rusty Haddock
Topic: 2689 Message: 2689

Regularly $49.99. Save $10 with promo code EMCXNWP54, ends 7/22.

http://www.newegg.com/Product/Product.aspx?Item=N82E16833124190

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2690. Re: [DAWG-HSMM] WRT54GL's on sale @ NewEgg.com

Yahoo group: DAWG-HSMM
Date: 2013-07-20 13:26:59 UTC
From: Kipton Moravec
Topic: 2689 Message: 2690

On Tue, 2013-07-16 at 23:02 -0500, Rusty Haddock wrote:
> Regularly $49.99. Save $10 with promo code EMCXNWP54, ends 7/22.
>
> http://www.newegg.com/Product/Product.aspx?Item=N82E16833124190
>

I just went to do it. I ordered 2 and got a $10 discount, with the code.
So I guessed it was only for the first one.

I changed the number ordered to 1. And the discount was $5.00. So it is
accepting that number as a $5 discount.

Kip

2691. night_rider74820 wants to join DAWG-HSMM

Yahoo group: DAWG-HSMM
Date: 2013-07-25 21:19:39 UTC
From: Kilgore
Topic: 2691 Message: 2691

You'll be busy. Feel free to ask questions.

Doug KD5OUG

On 7/25/2013 2:35 PM, Yahoo! Groups Notification wrote:
> Hello,
>
> The following person would like to join the DAWG-HSMM group:
> Email address: night_rider74820<donaldhenson@...>
>
> Comment from user:
> I just passed my Technicians Test last Thursday and await my call sign.
> I
> have 8 WRT's ready for configuring.

2693. Re: [DAWG-HSMM] two antannae question. . .

Yahoo group: DAWG-HSMM
Date: 2013-07-26 01:41:40 UTC
From: Eric Fort
Topic: 2692 Message: 2693

for that use why do you even need a mesh? just put a decent commercial quality access point on each tower and backhaul both of them to a common point with internet access. you may decide to backhaul over wireless on a different band than the users are on (users on 2.4Ghz & 5.8Ghz backhaul), but that's not exactly difficult. once that's up just point the users at the AP that sits on one or both towers. pretty standard stuff.

Eric
AF6EP

On Thu, Jul 25, 2013 at 6:27 PM, DonH <donaldhenson@...> wrote:

> **
>
>
> Just can't get my head wrapped around how to start a mesh in my little
> city of 30K! I realize for awhile, it will be much like a private network
> funded and built by myself until the idea catches on.
>
> I think I will start with helping some widows (one is my Aunt) with a free
> telephone from Google/Obihai. I think I can get permission to attach
> devices on two 100' towers on each end of town-which is only three miles
> across. My first question is when I mount one tower, do I point one high
> gain antennae at the other tower and then attach another high gain antennae
> to the other antennae on the router and point to my Aunt's house? Then do
> the same on the other tower; perhaps pointing at my house.
>
> Don
>
>
>

2694. Re: two antannae question. . .

Yahoo group: DAWG-HSMM
Date: 2013-07-26 16:14:16 UTC
From: DonH
Topic: 2692 Message: 2694

Lets try this way: can/do both antennae on a Linksys WRT54G v1-4 transmit/receive on both antennae if set too diversity? Can I attach one high gain antennae to the left side of the Linksys and another high gain to the right side? For example, the left side may point north toward one Mesh node and the right side would point south to another Mesh node.

I realize this may be a very simple question for most, but being the new guy, this is hard to grasp that one antennae can be receiving and the other side transmitting that information basically at the same time. . .

Don

--- In DAWG-HSMM@yahoogroups.com, Eric Fort <eric.fort@...> wrote:
>
> for that use why do you even need a mesh? just put a decent commercial
> quality access point on each tower and backhaul both of them to a common
> point with internet access. you may decide to backhaul over wireless on a
> different band than the users are on (users on 2.4Ghz & 5.8Ghz backhaul),
> but that's not exactly difficult. once that's up just point the users at
> the AP that sits on one or both towers. pretty standard stuff.
>
> Eric
> AF6EP
>
> On Thu, Jul 25, 2013 at 6:27 PM, DonH <donaldhenson@...> wrote:
>
> > **
> >
> >
> > Just can't get my head wrapped around how to start a mesh in my little
> > city of 30K! I realize for awhile, it will be much like a private network
> > funded and built by myself until the idea catches on.
> >
> > I think I will start with helping some widows (one is my Aunt) with a free
> > telephone from Google/Obihai. I think I can get permission to attach
> > devices on two 100' towers on each end of town-which is only three miles
> > across. My first question is when I mount one tower, do I point one high
> > gain antennae at the other tower and then attach another high gain antennae
> > to the other antennae on the router and point to my Aunt's house? Then do
> > the same on the other tower; perhaps pointing at my house.
> >
> > Don
> >
> >
> >
>

2695. Re: [DAWG-HSMM] Re: two antannae question. . .

Yahoo group: DAWG-HSMM
Date: 2013-07-26 17:00:31 UTC
From: Glenn Currie
Topic: 2692 Message: 2695

With diversity you can aim the one antenn on way an the other another way and ti woks fine. I woud use directional antennas. Thsi has been shown in QST, and I have done it also.

-Glenn

KD5MFW

_____
From: DonH <donaldhenson@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Friday, July 26, 2013 11:14 AM
Subject: [DAWG-HSMM] Re: two antannae question. . .

Lets try this way: can/do both antennae on a Linksys WRT54G v1-4 transmit/receive on both antennae if set too diversity? Can I attach one high gain antennae to the left side of the Linksys and another high gain to the right side? For example, the left side may point north toward one Mesh node and the right side would point south to another Mesh node.

I realize this may be a very simple question for most, but being the new guy, this is hard to grasp that one antennae can be receiving and the other side transmitting that information basically at the same time. . .

Don

--- In DAWG-HSMM@yahoogroups.com, Eric Fort <eric.fort@...> wrote:
>
> for that use why do you even need a mesh? just put a decent commercial
> quality access point on each tower and backhaul both of them to a common
> point with internet access. you may decide to backhaul over wireless on a
> different band than the users are on (users on 2.4Ghz & 5.8Ghz backhaul),
> but that's not exactly difficult. once that's up just point the users at
> the AP that sits on one or both towers. pretty standard stuff.
>
> Eric
> AF6EP
>
> On Thu, Jul 25, 2013 at 6:27 PM, DonH <donaldhenson@...> wrote:
>
> > **
> >
> >
> > Just can't get my head wrapped around how to start a mesh in my little
> > city of 30K! I realize for awhile, it will be much like a private network
> > funded and built by myself until the idea catches on.
> >
> > I think I will start with helping some widows (one is my Aunt) with a free

> > telephone from Google/Obihai. I think I can get permission to attach
> > devices on two 100' towers on each end of town-which is only three miles
> > across. My first question is when I mount one tower, do I point one high
> > gain antennae at the other tower and then attach another high gain antennae
> > to the other antennae on the router and point to my Aunt's house? Then do
> > the same on the other tower; perhaps pointing at my house.
> >
> > Don
> >
> >
> >
>

2696. Is this device useful in Hamnet?

Yahoo group: DAWG-HSMM
Date: 2013-07-28 22:47:27 UTC
From: w0uo
Topic: 2696 Message: 2696

All:

Here is a link to a device which may become available in small numbers. Is it useful in our networks?
http://www.senao.com/English/Default.aspx?TYPE=vipplayercard.htm
<http://www.senao.com/English/Default.aspx?TYPE=vipplayercard.htm&PT=product_t&tv_TCAT_POS=0&PID=02020001&CATNO0=B&CNT=0>
&PT=product_t&tv_TCAT_POS=0&PID=02020001&CATNO0=B&CNT=0

Jim Spaulding W0UO

2697. Is this device useful in Hamnet?

Yahoo group: DAWG-HSMM
Date: 2013-07-29 01:30:31 UTC
From: jeff robinson
Topic: 2696 Message: 2697

The same question, Could this device be useful in the Hamnet?

http://www.youtube.com/watch?v=-Qugmt5jXnw

All:

Here is a link to a device which may become available in small numbers. Is it useful in our networks? http://www.senao.com/English/Default.aspx?TYPE=vipplayercard.htm&PT=product_t&tv_TCAT_POS=0&PID=02020001&CATNO0=B&CNT=0

Jim Spaulding W0UO

2698. Re: [DAWG-HSMM] Is this device useful in Hamnet?

Yahoo group: DAWG-HSMM
Date: 2013-07-29 03:15:22 UTC
From: Rusty Haddock
Topic: 2696 Message: 2698

w0uo wrote:
>All:
>
>Here is a link to a device which may become available in small numbers. Is
>it useful in our networks?
>http://www.senao.com/English/Default.aspx?TYPE=vipplayercard.htm
><http://www.senao.com/English/Default.aspx?TYPE=vipplayercard.htm&PT=product
>_t&tv_TCAT_POS=0&PID=02020001&CATNO0=B&CNT=0>
>&PT=product_t&tv_TCAT_POS=0&PID=02020001&CATNO0=B&CNT=0

Jim,
That unit appears to be an 802.11b only unit and would slowdown any
nearby nodes. Oddly, some parts of the website indicates that the unit
is 11g capable. Hard to say. Right now, the only way this unit might
be useful would be as a wireless access to the mesh. A quick look
on openwrt.org shows that Senao units are not supported. Since the
Broadband-Hamnet firmware is based upon OpenWrt it doesn't appear to
would be useful anytime real soon, at least as a mesh node.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2699. Operators Needed for the Ramapo Rally Bike Ride - Sunday, August 18

Yahoo group: DAWG-HSMM
Date: 2013-08-02 14:45:32 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2699 Message: 2699

H Folks!
Operators are needed for the Ramapo Bike Rally on Sunday, August 18.

If you are available, please contact me at 201.314.6964 or drop me an email.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

2700. HSMM-MESH Workshop Night - Monday, August 12 - Hawthorne Fire Dept.

Yahoo group: DAWG-HSMM
Date: 2013-08-02 14:47:13 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2700 Message: 2700

Hi Folks!

At a recent Passaic County OEM RACES/ARES meeting we presented a talk on HSMM-MESH networking and applications. There was a lot of interest and many expressed a need for a follow-up workshop where individuals could spend time engaged in "hands-on" activity with their own gear, or the gear of others.

We did this in Bergenfield just before the Fair Lawn Fireworks display and it allowed many to become familiar with both the technical aspects of assembling a network and the applications of the network. Some of the application topics include texting, file transfer, video streaming, email, Internet gateway access and environmental sensing.

We will meet starting about 6:00 PM and will stay as late as interest allows, given that many have to go to work the next day!

The address of the Hawthorne Fire HQ is 828 Lafayette Ave., Hawthorne, 07506.. The building is on the corner of Goffle Rd. and Lafayette Avenues.

Please feel free to circulate this to your friends and club members as all are welcome!

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

2701. Bergenfield Boy Scout Troop 139 Hamfest Reminder - Saturday, August 3

Yahoo group: DAWG-HSMM
Date: 2013-08-02 15:00:54 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2701 Message: 2701

Hi Folks!
Just a quick reminder of the Boy Scout Troop 139/Venture Crew 7373 Hamfest tomorrow, August 3rd in Bergenfield.

The address is 19 North William St. Bergenfield, NJ 07621.

Doors open for vendors at 6:00 AM and for buyers at 8:00 AM.

The facility is indoors and air conditioned.

Tables are $15 with both tables and chairs provided. Some tables are still available

Buyers are $3 per person.

There will be food available to make the fun of seeing old friends that much more enjoyable!

There will also be non-ham vendors and activities focused on the non-ham, so bring your spouse who may not be a ham!

Yours in Scouting!
Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

2702. looking for atheros based high power bridges

Yahoo group: DAWG-HSMM
Date: 2013-08-02 16:19:55 UTC
From: Eric Fort
Topic: 2702 Message: 2702

Does anyone know where one might find some atheros based wifi radios in the 40+dbm output power range for 2.4 or 5.8 ghz? I'm trying to go a little further with decent margin and could use the higher output power. I'd really like to find a way to run 50dbm at the feedpoint if at all possible. Another thing I'm looking at is the ability to run an alternate spreading code (thus not completely 802.11 compatable/interoperable) but I don't know any chipset that allows for that.

Eric
AF6EP

2703. Re: [DAWG-HSMM] Operators Needed for the Ramapo Rally Bike Ride - Sunday, August 18

Yahoo group: DAWG-HSMM
Date: 2013-08-02 19:12:29 UTC
From: Rusty Haddock
Topic: 2699 Message: 2703

J.Gordon Beattie, Jr., W2TTT wrote:
>H Folks!
>Operators are needed for the Ramapo Bike Rally on Sunday, August 18.
>
>If you are available, please contact me at 201.314.6964 or drop me an email.

Where's dat? In noythen Joyzey?? :)

Please remember that, while we can be a geographically diverse bunch,
this here mailing list is for the Dallas (TX) Area Working Group of HSMM.
Still, ya never know when a Texan might wander up that way and be useful!

Cheers!
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2704. Chat server

Yahoo group: DAWG-HSMM
Date: 2013-08-06 22:01:19 UTC
From: chiefsfan2
Topic: 2704 Message: 2704

I am looking at converting a router to a chat server using the info on

http://www.hsmm-mesh.org/applications-for-the-mesh/118-internet-relay-chat-irc.html

It says I can download the latest package for ngircd (20.2) from the download page but I cannot find it anywhere? Can some one point me to this file? Is it the file on

: http://ngircd.barton.de ? Thanks for the help

2705. Re: [DAWG-HSMM] Chat server

Yahoo group: DAWG-HSMM
Date: 2013-08-06 23:55:49 UTC
From: Rusty Haddock
Topic: 2704 Message: 2705

chiefsfan2 wrote:
> I am looking at converting a router to a chat server using the info on
>
>http://www.hsmm-mesh.org/applications-for-the-mesh/118-internet-relay-chat-i
>rc.html
>
>It says I can download the latest package for ngircd (20.2) from the
>download page but I cannot find it anywhere? Can some one point me to this
>file? Is it the file on
>
>: http://ngircd.barton.de ? Thanks for the help

The files on barton.de are for PCs and Macs with links for the old Amiga
but not for a WRT54G router.

Please keep in mind that I wrote that instructional before v1.0.0
was released. I'm sorry it's not in the downloadable software list
right now as it's not part of David's build system. I'm trying to get
the guys down in Austin to move the package in with the rest of the
packages. The same binary will run just fine on the v1.0.0 firmware --
I'm running it right now.

Also keep in mind that during installation that there will be a message
about punching a hole in the firewall. Under the new defaults for v1.0.0
(DMZ/Direct mode) this is not necessary for the WiFi interface, just
the WAN if you want to open that up. In any case you still will want
to make the service advertised. On the other hand, if you return the
mode of operations back to NAT mode, port forwarding on port 6667 will
be necessary. Again, I wrote that instructional well before I found
out that 5-host DMZ or Direct mode would be the default.

I can email you the package directly if you'd like.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2706. RE: [DAWG-HSMM] Chat server

Yahoo group: DAWG-HSMM
Date: 2013-08-07 00:27:20 UTC
From: chiefsfan2
Topic: 2704 Message: 2706

Yes sir would you please email it to N0KQX at arrl dot net. Thanks

-----

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf
Of Rusty Haddock
Sent: Tuesday, August 06, 2013 6:56 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Chat server

chiefsfan2 wrote:
> I am looking at converting a router to a chat server using the info on
>
>http://www.hsmm-mesh.org/applications-for-the-mesh/118-internet-relay-chat-
i
>rc.html
>
>It says I can download the latest package for ngircd (20.2) from the
>download page but I cannot find it anywhere? Can some one point me to this
>file? Is it the file on
>
>: http://ngircd.barton.de ? Thanks for the help

The files on barton.de are for PCs and Macs with links for the old Amiga
but not for a WRT54G router.

Please keep in mind that I wrote that instructional before v1.0.0
was released. I'm sorry it's not in the downloadable software list
right now as it's not part of David's build system. I'm trying to get
the guys down in Austin to move the package in with the rest of the
packages. The same binary will run just fine on the v1.0.0 firmware --
I'm running it right now.

Also keep in mind that during installation that there will be a message
about punching a hole in the firewall. Under the new defaults for v1.0.0
(DMZ/Direct mode) this is not necessary for the WiFi interface, just
the WAN if you want to open that up. In any case you still will want
to make the service advertised. On the other hand, if you return the
mode of operations back to NAT mode, port forwarding on port 6667 will
be necessary. Again, I wrote that instructional well before I found
out that 5-host DMZ or Direct mode would be the default.

I can email you the package directly if you'd like.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE

```
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2707. Re: [DAWG-HSMM] Chat server

Yahoo group: DAWG-HSMM
Date: 2013-08-07 01:17:38 UTC
From: Rusty Haddock
Topic: 2704 Message: 2707

```
Actually, if you hit the Refresh button for 'Download Packages', you
will find the package there now. I just downloaded it into one my nodes.
Look for 'ngircd 20.2'

Have phun!
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2708. RE: [DAWG-HSMM] Chat server

Yahoo group: DAWG-HSMM
Date: 2013-08-07 02:24:13 UTC
From: chiefsfan2
Topic: 2704 Message: 2708

Where do I do this at?

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Rusty Haddock
Sent: Tuesday, August 06, 2013 8:18 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Chat server

Actually, if you hit the Refresh button for 'Download Packages', you will find the package there now. I just downloaded it into one my nodes. Look for 'ngircd 20.2'

Have phun!
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2709. Re: [DAWG-HSMM] Chat server

Yahoo group: DAWG-HSMM
Date: 2013-08-07 03:31:15 UTC
From: Rusty Haddock
Topic: 2704 Message: 2709

```
chiefsfan2 wrote:
>Where do I do this at?

On the Setup->Administration page on your router.

BTW, if you are not reading the instructions mentioning
version 20.2 of 'ngircd' then... I'd go get the latest document.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2710. RE: [DAWG-HSMM] Chat server

Yahoo group: DAWG-HSMM
Date: 2013-08-07 12:39:50 UTC
From: chiefsfan2
Topic: 2704 Message: 2710

Rusty, could you e-mail a copy of the package to me?

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf
Of Rusty Haddock
Sent: Tuesday, August 06, 2013 10:31 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Chat server

chiefsfan2 wrote:
>Where do I do this at?

On the Setup->Administration page on your router.

BTW, if you are not reading the instructions mentioning
version 20.2 of 'ngircd' then... I'd go get the latest document.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2711. Version 1.0.0

Yahoo group: DAWG-HSMM
Date: 2013-08-07 15:41:07 UTC
From: albertkarel
Topic: 2711 Message: 2711

As a beginner with 2 newly configured nodes, I wonder:

1. Are nodes configured with older versions of the firmware fully compatible with Version 1.0.0 nodes?

2. I just configured my routers with the prior firmware Version...can I just overwrite with the new version or must the old version be erased first?

2712. Re: [DAWG-HSMM] Version 1.0.0

Yahoo group: DAWG-HSMM
Date: 2013-08-07 17:16:21 UTC
From: Jimmy Dominguez
Topic: 2711 Message: 2712

I am sure others who are much more versed in this will respond, but in the meantime, as I understand it, once you load version 1 to your node the previous version nodes will not be seen by it, and the previous version nodes will not see version 1.

Assuming you have an internet connection to your node, you should be able to upgrade to the version 1.

Again, I am just repeating what I've read over the last week or so.

Jimmy
ke5peq

On Wed, Aug 7, 2013 at 10:41 AM, albertkarel <arkarel@...> wrote:

> **
>
>
> As a beginner with 2 newly configured nodes, I wonder:
>
> 1. Are nodes configured with older versions of the firmware fully
> compatible with Version 1.0.0 nodes?
>
> 2. I just configured my routers with the prior firmware
> Version...can I just overwrite with the new version or must the old
> version be erased first?
>
>
>

2713. Re: [DAWG-HSMM] Version 1.0.0

Yahoo group: DAWG-HSMM
Date: 2013-08-07 19:03:08 UTC
From: Rusty Haddock
Topic: 2711 Message: 2713

albertkarel wrote:
>As a beginner with 2 newly configured nodes, I wonder:
>
>1. Are nodes configured with older versions of the firmware fully
>compatible with Version 1.0.0 nodes?

No. Version 1.0.0 will not mesh with nodes running earlier versions.
This is one of the reasons the SSID was changed to BroadbandHamnet-v1.
The v# at the end will be changed when future firmware becomes
incompatible with previous versions.

>2. I just configured my routers with the prior firmware
>Version...can I just overwrite with the new version or must
>the old version be erased first?

Any new firmware will completely overwrite the previous contents
of the routers flash memory. No erasing on your part is necessary.
Everything is handled for you when using the "Firmware update" section
of the Setup->Administration page.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2714. hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-18 20:59:40 UTC
From: n1mea
Topic: 2714 Message: 2714

I am looking for a little help setting up a mesh network. I have 3 nodes up and running I can see all nodes I have one node hooked to the internet and able to get the internet on all computers. But I do not know how to set it up to do networking need help with those settings.
Please help
73
Mark
n1mea

2715. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-19 05:51:25 UTC
From: Rusty Haddock
Topic: 2714 Message: 2715

```
n1mea wrote:
>I am looking for a little help setting up a mesh network. I have 3
>nodes up and running I can see all nodes I have one node hooked to the
>internet and able to get the internet on all computers. But I do not
>know how to set it up to do networking need help with those settings.

Mark,
Please give us a little more to go on. If all nodes see each other
then you have a network -- it will build itself. That's one of the
main attributes of a mesh network. What kind of "networking" are you
trying to set up??

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
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```

2716. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-19 08:51:34 UTC
From: Mark Albee
Topic: 2714 Message: 2716

Hi Rusty
I am trying to do network with windows XP I am using N3FJP networked version I have no problems networking over a wifi network or wired threw a router But I do not know how to get this stuff to work threw the mesh network. When I plug both computers in to the same node It works but when I put a computer on different node I can not see the other computer.
Thanks
Mark

Sent: Monday, August 19, 2013 1:51 AM
To: DAWG-HSMM@yahoogroups.com lpug tsuterpcomwo the n
Subject: Re: [DAWG-HSMM] hsmm help

n1mea wrote:
>I am looking for a little help setting up a mesh network. I have 3
>nodes up and running I can see all nodes I have one node hooked to the
>internet and able to get the internet on all computers. But I do not
>know how to set it up to do networking need help with those settings.

Mark,
Please give us a little more to go on. If all nodes see each other
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2717. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-19 12:01:04 UTC
From: Cecil Casey
Topic: 2714 Message: 2717

Hi Mark,

The underling mesh network only knows how to transfer IP packets from node to node.

I am guessing that your problem is that the windows networking protocol is not getting routed from one mesh node to the other.

In Linux you have to add the Samba packages to allow this functionally.

I am sure that Rusty will have some suggestions for you.

-Cecil
AA5CE

From: Mark Albee <n1mea@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Monday, August 19, 2013 3:51 AM
Subject: Re: [DAWG-HSMM] hsmm help

Hi Rusty
I am trying to do network with windows XP I am using N3FJP networked
version I have no problems networking over a wifi network or wired
threw a router But I do not know how to get this stuff to work threw the mesh
network. When I plug both computers in to the same node It works but when
I put a computer on different node I can not see the other computer.
Thanks
Mark

Sent: Monday, August 19, 2013 1:51 AM
To: DAWG-HSMM@yahoogroups.com lpug tsuterpcomwo the n
Subject: Re: [DAWG-HSMM] hsmm help

n1mea wrote:
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>nodes up and running I can see all nodes I have one node hooked
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>internet and able to get the internet on all computers. But I do
not
>know how to set it up to do networking need help with those
settings.

Mark,
Please give us a little more to go on. If all nodes
see each other
then you have a network -- it will build itself. That's one of

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main attributes of a mesh network. What kind of "networking" are
you
trying to set up??

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2718. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-19 15:57:34 UTC
From: Brian Esche
Topic: 2714 Message: 2718

Mark, there are two issues that you need to investigate. First, in order for the machine that is hosting the database for the N3FJP logging program to be accessed from other mesh nodes you'll need to configure either port forwarding using NAT or put the server in a DMZ (configured on the mesh node where the server is connected). Without either of those modes there's no way for devices on the mesh outside of the server's host node to find the server. A second issue is that by default Windows firewall will prevent devices from subnets other than the one where the PC is connected from accessing the server. You'll either need to turn off the firewall on the server (not recommended) or change its configuration to allow off-subnet connections.

If all devices are on the same network (which is the case when PCs are connected to the same switch as the server or if you're using a wireless network with a single subnet) these issues don't appear. In a mesh environment you're dealing with multiple private subnets (one for each node) as well as the 10.x subnet that supports the communication between the nodes so the configuration is a bit more complex than it is in a single-subnet environment. Take a look at the documentation regarding NAT or DMZ config and it may be helpful. Also, the ports that are used by the N3FJP software are documented within the program (I believe) or you may be able to get that info from N3FJP's web site.

73, Brian WB9QVR
Hi Rusty
I am trying to do network with windows XP I am using N3FJP networked
version I have no problems networking over a wifi network or wired
threw a router But I do not know how to get this stuff to work threw the mesh
network. When I plug both computers in to the same node It works but when
I put a computer on different node I can not see the other computer.
Thanks
Mark

2719. Re: hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-19 21:50:48 UTC
From: n0trk
Topic: 2714 Message: 2719

There is a great video on youtube that will help.

http://www.youtube.com/watch?v=m_XCA_TEutM worked like a charm for me.

Other reading recommended is:

http://hsmm-mesh.org/fd-logging-with-mesh/131-mesh-networks-are-different-than-wifi-read-how.html

It took me a little time to get my head around it, but Mesh Networks are not like a WiFi network...

--- In DAWG-HSMM@yahoogroups.com, "Mark Albee" <n1mea@...> wrote:
>
> Hi Rusty
> I am trying to do network with windows XP I am using N3FJP networked version I have no problems networking over a wifi network or wired threw a router But I do not know how to get this stuff to work threw the mesh network. When I plug both computers in to the same node It works but when I put a computer on different node I can not see the other computer.
> Thanks
> Mark
>
> Sent: Monday, August 19, 2013 1:51 AM
> To: DAWG-HSMM@...m lpug tsuterpcomwo the n
> Subject: Re: [DAWG-HSMM] hsmm help
>
>
> n1mea wrote:
> >I am looking for a little help setting up a mesh network. I have 3
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> >know how to set it up to do networking need help with those settings.
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> Mark,
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>

2720. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-19 23:10:50 UTC
From: Rusty Haddock
Topic: 2714 Message: 2720

Mark Albee wrote:
>Hi Rusty
>I am trying to do network with windows XP I am using N3FJP networked
>version I have no problems networking over a wifi network or wired
>threw a router But I do not know how to get this stuff to work threw
>the mesh network. When I plug both computers in to the same node
>It works but when I put a computer on different node I can not see
>the other computer.

Mark, the video that n0trk suggests should work well for you if you are trying to get the logging software running over v0.4.3 of the Broadband-Hamnet firmware. If this is the firmware that you have loaded on your nodes then stick with it and the video will take you THROUGH the steps you'll need to get everything working.

If you are using v1.0.0 (the latest) then alot of that setup goes right out the window because of changes made to the default node configuration and, for the most part, opening up network 'ports' is a thing of the past.

In either case, reserving a DHCP address for the computers connected to each node would be prudent!

Taking the time to learn about TCP/IP will benefit you greatly in working with the mesh for different projects. There are a number of tutorials on the Internet. If you'd like a book then I recommend "TCP/IP for Dummies" if you're a newbie to computer networking. It's a very good book (I hate the title though).

73 and good luck in the contest! :)

-Rusty-
--
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2721. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-19 23:13:35 UTC
From: Mary Joseph
Topic: 2714 Message: 2721

Good Point Rusty.. I forgot about that... :(

At 06:10 PM 8/19/2013, Rusty Haddock wrote:
>
>
>Mark Albee wrote:
> >Hi Rusty
> >I am trying to do network with windows XP I am using N3FJP networked
> >version I have no problems networking over a wifi network or wired
> >threw a router But I do not know how to get this stuff to work threw
> >the mesh network. When I plug both computers in to the same node
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> >the other computer.
>
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>Broadband-Hamnet firmware. If this is the firmware that you have loaded
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>the steps you'll need to get everything working.
>
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>out the window because of changes made to the default node configuration
>and, for the most part, opening up network 'ports' is a thing of the past.
>
>In either case, reserving a DHCP address for the computers connected to
>each node would be prudent!
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>with the mesh for different projects. There are a number of tutorials on
>the Internet. If you'd like a book then I recommend "TCP/IP for Dummies"
>if you're a newbie to computer networking. It's a very good book (I
>hate the title though).
>
>73 and good luck in the contest! :)
>
>-Rusty-
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>

2722. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-20 01:23:35 UTC
From: Mark Albee
Topic: 2714 Message: 2722

Hi
When I try to go to the other computer thew windows run I get network path not found

From: Rusty Haddock
Sent: Monday, August 19, 2013 7:10 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] hsmm help

Mark Albee wrote:
>Hi Rusty
>I am trying to do network with windows XP I am using N3FJP networked
>version I have no problems networking over a wifi network or wired
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>the other computer.

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on your nodes then stick with it and the video will take you THROUGH
the steps you'll need to get everything working.

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hate the title though).

73 and good luck in the contest! :)

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2723. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-20 05:00:18 UTC
From: Rusty Haddock
Topic: 2714 Message: 2723

Mark Albee wrote:
>Hi
>When I try to go to the other computer thew windows run I get
>network path not found

Mark, you TRULY NEED to realize something here -- anybody that tries to help you via the mailing list (not just me) is basically "blind" because we can not see what you are doing. All we've heard from you is that "it doesn't work". Well, what have you done? What are you actually doing? And a little more effort in the English Dept. would be helpful too even if English is not your first language.

Did you watch the video?
Did you follow the instructions in the video?
Are you using v0.4.3 of the firmware or v1.0.0?
Are you trying to just get the N3FJP software working or are you trying to do more? If more, what?
What are you doing when you got the network path not found error message? Running N3FJP or accessing shares or what?

Some details would be greatly appreciated!

--
_____ Rusty Haddock <=> AE5AE
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2724. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-20 19:29:23 UTC
From: Lew Paceley
Topic: 2714 Message: 2724

If your equipment is operating properly "network path not found" probably means that Windows doesn't know how to route to the 10.x.y.z network.

Open a Windows Command Prompt window as an administrator (right click) and input:

route -p ADD 10.0.0.0 MASK 255.0.0.0 <your local mesh node LAN IP address>

For example, on my Win7 machine I use this command line: route -p ADD 10.0.0.0 MASK 255.0.0.0 192.168.1.5

Windows should respond with OK!

Close the Command Prompt window and see if that fixes the problem.

The -p switch makes the route persistent. If you change the LAN IP address of your mesh router you'll need to remove the route and add a new one. Google "add a static IP route" and you should find more info.

GL.

73,
Lew
K7GO
MT

PS - If you're trying to route by node name (versus static IP address) then you have to make sure that either the local DNS is caching the mesh node names and addresses or alternatively you can modify your local hosts file on your WIndows machine. Again, Google is your friend here.

On Mon, Aug 19, 2013 at 7:23 PM, Mark Albee <n1mea@...> wrote:

>
>
> Hi
> When I try to go to the other computer thew windows run I get network path
> not found
>
> *From:* Rusty Haddock <rusty@...>
> *Sent:* Monday, August 19, 2013 7:10 PM
> *To:* DAWG-HSMM@yahoogroups.com
> *Subject:* Re: [DAWG-HSMM] hsmm help
>
>
>
> Mark Albee wrote:

```
>
> >Hi Rusty
> >I am trying to do network with windows XP I am using N3FJP networked
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> >It works but when I put a computer on different node I can not see
> >the other computer.
>
> Mark, the video that n0trk suggests should work well for you if you
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> the steps you'll need to get everything working.
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> out the window because of changes made to the default node configuration
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> In either case, reserving a DHCP address for the computers connected to
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> with the mesh for different projects. There are a number of tutorials on
> the Internet. If you'd like a book then I recommend "TCP/IP for Dummies"
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> 73 and good luck in the contest! :)
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>
>
>
>
>
```

2725. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-20 23:30:39 UTC
From: Mark Albee
Topic: 2714 Message: 2725

Thank you all for putting up with me. I will try that and do some more reading.
73
Mark

From: Lew Paceley
Sent: Tuesday, August 20, 2013 3:29 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] hsmm help

If your equipment is operating properly "network path not found" probably means that Windows doesn't know how to route to the 10.x.y.z network.

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For example, on my Win7 machine I use this command line: route -p ADD 10.0.0.0 MASK 255.0.0.0 192.168.1.5

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GL.

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Lew
K7GO
MT

PS - If you're trying to route by node name (versus static IP address) then you have to make sure that either the local DNS is caching the mesh node names and addresses or alternatively you can modify your local hosts file on your WIndows machine. Again, Google is your friend here.

On Mon, Aug 19, 2013 at 7:23 PM, Mark Albee <n1mea@...> wrote:

Hi
When I try to go to the other computer thew windows run I get network path not found

From: Rusty Haddock
Sent: Monday, August 19, 2013 7:10 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] hsmm help

Mark Albee wrote:

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2726. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-24 23:29:26 UTC
From: Mark Albee
Topic: 2714 Message: 2726

Hi Lew
Thank you so much. I got it working. Thank you all for giving me a had with this.
73
Mark
N1MEA

From: Lew Paceley
Sent: Tuesday, August 20, 2013 3:29 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] hsmm help

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On Mon, Aug 19, 2013 at 7:23 PM, Mark Albee <n1mea@...> wrote:

Hi
When I try to go to the other computer thew windows run I get network path not found

From: Rusty Haddock
Sent: Monday, August 19, 2013 7:10 PM

To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] hsmm help

Mark Albee wrote:

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2727. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-28 15:21:53 UTC
From: Bill Vodall
Topic: 2714 Message: 2727

```
>
> >> If your equipment is operating properly "network path not found"
> probably means that Windows doesn't know how to route to the 10.x.y.z
> network.
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> Thank you so much. I got it working. Thank you all for giving me a had
> with this.
> 73
> Mark
>
```

What was the fix? Is there something that needs to be added to the documentation.

Thanks,
Bill, WA7NWP

2728. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-29 00:42:17 UTC
From: Lew Paceley
Topic: 2714 Message: 2728

Hi Bill,
I have no idea whether additional documentation might be needed. The issue that was being seen was apparently due to the fact that the Windows client didn't know how to route packets to the mesh router on the LAN. These kinds of problems can be challenging to debug because the error messages often don't give any clues as to the real issue.

In fact, there are a number of cases where you may need to explicitly tell the client machine to route packets through a gateway node at a particular address. I'm sure there are many cases I'm missing but the ones that come immediately to mind for our mesh adventures are:

1) You have a mesh router (and it's the only router on the LAN) but it's not providing DHCP gateway address information to the client machine for whatever reason.
Example: You have a Bullet/WRT that is the only router on the LAN but it has DHCP turned off because you are using static addresses. The client machine never receives a gateway address via DHCP and consequently doesn't know where to route the 10.x.y.z mesh packets destined for the mesh wireless network.

2) You have an existing internet router that is providing the DHCP gateway information to the client machine. The gateway address it serves to the client machine provides a gateway address for routing to the internet. However, you want to add a secondary router and route the mesh traffic through the secondary router to the mesh wireless network, not the internet.
Example: You are adding a Bullet/WRT for mesh access that will be connected to your home LAN. Your home LAN already has an existing router for the internet. However, you want 10.x.y.z. packets to use the Bullet/WRT as the gateway and not attempt to send the 10.x.y.z. mesh destination packets to the internet which will fail.

3) You have not configured your primary router to automatically route 10.x.y.z mesh packets to your mesh router. This can be a better alternative to having the LAN clients each having to manually configure a route in their client machines if there are multiple mesh clients on the LAN.
Example: I can set a static route 10.0.0.0 mask 255.0.0.0 through my LAN address 192.168.1.5 Bullet via my Cisco routers "advanced routing" menu. It simply adds the Bullet LAN IP address to its internal routing table as a gateway to the 10.x.y.z network. All 10.x.y.z traffic is then automagically routed through my Bullet without making any changes to the client machine routing.

The simplest single client solution is often to just force the client machine to send 10.x.y.z packets to the LAN-based mesh router directly.

The person having the problem was using a Windows machine so I suggested using the Windows "route" command as a simple fix.

Anyway, this is probably more than anyone was interested in but perhaps it will be useful in the future.

Cheers,
Lew
K7GO
MT

On Wed, Aug 28, 2013 at 9:21 AM, Bill Vodall <wa7nwp@...> wrote:

>
>
> >> If your equipment is operating properly "network path not found"
>> probably means that Windows doesn't know how to route to the 10.x.y.z
>> network.
>>
>
>> Thank you so much. I got it working. Thank you all for giving me a had
>> with this.
>> 73
>> Mark
>>
>
>
> What was the fix? Is there something that needs to be added to the
> documentation.
>
> Thanks,
> Bill, WA7NWP
>
>
>
>
>

2729. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-29 16:00:20 UTC
From: Mark Albee
Topic: 2714 Message: 2729

Hi Guys
My problem is lack of networking knowledge.But I have learned a lot in the past two weeks. After I got the network setup with right settings it started to work. I can see the files that I have shared on the computer on the other node.These folders were setup while networked before using the mesh. But I still can’t add new folders to share while using the mesh network. When I use the add a new network place wizard the the other computer does not show up in the work group. I can only see the computer I am on. I can ping all computers on the mesh network. I got the N3fjp field day software networked and working. So it does work but I think I still have things to work out.
73
Marrk

From: Bill Vodall
Sent: Wednesday, August 28, 2013 11:21 AM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] hsmm help

>> If your equipment is operating properly "network path not found" probably means that Windows doesn't know how to route to the 10.x.y.z network.

Thank you so much. I got it working. Thank you all for giving me a had with this.
73
Mark

What was the fix? Is there something that needs to be added to the documentation.

Thanks,
Bill, WA7NWP

2730. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-29 20:13:34 UTC
From: Lew Paceley
Topic: 2714 Message: 2730

Hi Mark,
Windows assumes workgroup members are all on the same LAN/subnet. Windows Workgroups aren't really intended to stretch across a WAN to different networks which is what you are attempting to do. I'm not sure how you could make it work without playing some tricks with IP addresses to fool the Windows machines on different networks into thinking they are on the same LAN. It would definitely be a limited-use hack.

Another potential solution may be to use the Windows Remote Desktop capability. It is designed to share files across a WAN. There are a number of Remote Desktop Protocol clients available including open-source implementations. The big issue for ham mesh use is that (nearly?) all the RDP implementations use encryption to protect the transfer of client data. It is theoretically possible to take one of the open source RDP clients and surgically remove the encryption but it would be a lot of work.

The mesh network features don't seem to be adding much value based on my limited understanding of your usage model. A single centralized conventional Part 15 WiFi router that all your clients can connect to may be the simplest solution for connecting your computers.

GL.

73,
Lew
K7GO
MT

On Thu, Aug 29, 2013 at 10:00 AM, Mark Albee <n1mea@...> wrote:

>
>
> Hi Guys
> My problem is lack of networking knowledge.But I have learned a lot in the
> past two weeks.
> After I got the network setup with right settings it started to work. I
> can see the files that I have shared on the computer on the other
> node.These folders were setup while networked before using the mesh. But I
> still can’t add new folders to share while using the mesh network. When I
> use the add a new network place wizard the the other computer does not
> show up in the work group. I can only see the computer I am on. I can ping
> all computers on the mesh network. I got the N3fjp field day software
> networked and working. So it does work
> but I think I still have things to work out.
> 73
> Marrk

>
> *From:* Bill Vodall <wa7nwp@...>
> *Sent:* Wednesday, August 28, 2013 11:21 AM
> *To:* DAWG-HSMM@yahoogroups.com
> *Subject:* Re: [DAWG-HSMM] hsmm help
>
>
>
> >> If your equipment is operating properly "network path not found"
>> probably means that Windows doesn't know how to route to the 10.x.y.z
>> network.
>>
>
>> Thank you so much. I got it working. Thank you all for giving me a had
>> with this.
>> 73
>> Mark
>>
>
>
> What was the fix? Is there something that needs to be added to the
> documentation.
>
> Thanks,
> Bill, WA7NWP
>
>
>
>
>
>

2731. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-29 23:56:20 UTC
From: Mark Albee
Topic: 2714 Message: 2731

Hi Lew
I got it now. You have to type in the address you can’t use the browse option button when you add a network place.Its working now.
73
Mark

From: Lew Paceley
Sent: Thursday, August 29, 2013 4:13 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] hsmm help

Hi Mark,
Windows assumes workgroup members are all on the same LAN/subnet. Windows Workgroups aren't really intended to stretch across a WAN to different networks which is what you are attempting to do. I'm not sure how you could make it work without playing some tricks with IP addresses to fool the Windows machines on different networks into thinking they are on the same LAN. It would definitely be a limited-use hack.

Another potential solution may be to use the Windows Remote Desktop capability. It is designed to share files across a WAN. There are a number of Remote Desktop Protocol clients available including open-source implementations. The big issue for ham mesh use is that (nearly?) all the RDP implementations use encryption to protect the transfer of client data. It is theoretically possible to take one of the open source RDP clients and surgically remove the encryption but it would be a lot of work.

The mesh network features don't seem to be adding much value based on my limited understanding of your usage model. A single centralized conventional Part 15 WiFi router that all your clients can connect to may be the simplest solution for connecting your computers.

GL.

73,
Lew
K7GO
MT

On Thu, Aug 29, 2013 at 10:00 AM, Mark Albee <n1mea@...> wrote:

Hi Guys
My problem is lack of networking knowledge.But I have learned a lot in the past two weeks. After I got the network setup with right settings it started to work. I can see the files that I have shared on the computer on the other node.These folders were setup while networked before using the mesh. But I still can’t add new folders to share while using the mesh network. When I use the add a new network place wizard the the other computer does not show up in the work group. I can only see the computer I am on. I can ping all computers on the mesh network. I got the N3fjp field day software networked and working. So it does work

but I think I still have things to work out.
73
Marrk

From: Bill Vodall
Sent: Wednesday, August 28, 2013 11:21 AM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] hsmm help

>> If your equipment is operating properly "network path not found" probably means that Windows doesn't know how to route to the 10.x.y.z network.

Thank you so much. I got it working. Thank you all for giving me a had with this.
73
Mark

What was the fix? Is there something that needs to be added to the documentation.

Thanks,
Bill, WA7NWP

2732. Non-HSMM router

Yahoo group: DAWG-HSMM
Date: 2013-08-31 16:50:10 UTC
From: chiefsfan2
Topic: 2732 Message: 2732

I thought I read where you could plug a normal router into a hsmm router then hams with a normal wifi computer could access the network. Is that accurate?

Thanks Dale

2733. Re: [DAWG-HSMM] hsmm help

Yahoo group: DAWG-HSMM
Date: 2013-08-31 17:09:16 UTC
From: Lew Paceley
Topic: 2714 Message: 2733

Hey Mark,
That's fantastic! Good work. You've done something many folks haven't
even tried. When you get a spare minute please consider writing up your
setup for connecting the Windows machines and posting the writeup on the
hsmm-mesh site.

73,
Lew
K7GO
MT

On Thu, Aug 29, 2013 at 5:56 PM, Mark Albee <n1mea@...t> wrote:

>
>
> Hi Lew
> I got it now. You have to type in the address you can’t use the browse
> option button when you add a network place.Its working now.
> 73
> Mark
>
>
> *From:* Lew Paceley <lew@...>
> *Sent:* Thursday, August 29, 2013 4:13 PM
> *To:* DAWG-HSMM@yahoogroups.com
> *Subject:* Re: [DAWG-HSMM] hsmm help
>
>
>
> Hi Mark,
> Windows assumes workgroup members are all on the same LAN/subnet. Windows
> Workgroups aren't really intended to stretch across a WAN to different
> networks which is what you are attempting to do. I'm not sure how you
> could make it work without playing some tricks with IP addresses to fool
> the Windows machines on different networks into thinking they are on the
> same LAN. It would definitely be a limited-use hack.
>
> Another potential solution may be to use the Windows Remote Desktop
> capability. It is designed to share files across a WAN. There are a
> number of Remote Desktop Protocol clients available including open-source
> implementations. The big issue for ham mesh use is that (nearly?) all the
> RDP implementations use encryption to protect the transfer of client data.
> It is theoretically possible to take one of the open source RDP clients and
> surgically remove the encryption but it would be a lot of work.
>
> The mesh network features don't seem to be adding much value based on my

> limited understanding of your usage model. A single centralized
> conventional Part 15 WiFi router that all your clients can connect to may
> be the simplest solution for connecting your computers.
>
> GL.
>
> 73,
> *Lew*
> K7GO
> MT
>
>
> On Thu, Aug 29, 2013 at 10:00 AM, Mark Albee <n1mea@myfairpoint.net>wrote:
>
>>
>>
>> Hi Guys
>> My problem is lack of networking knowledge.But I have learned a lot in
>> the past two weeks.
>> After I got the network setup with right settings it started to work. I
>> can see the files that I have shared on the computer on the other
>> node.These folders were setup while networked before using the mesh. But I
>> still can’t add new folders to share while using the mesh network. When I
>> use the add a new network place wizard the the other computer does not
>> show up in the work group. I can only see the computer I am on. I can ping
>> all computers on the mesh network. I got the N3fjp field day software
>> networked and working. So it does work
>> but I think I still have things to work out.
>> 73
>> Marrk
>>
>> *From:* Bill Vodall <wa7nwp@...>
>> *Sent:* Wednesday, August 28, 2013 11:21 AM
>> *To:* DAWG-HSMM@yahoogroups.com
>> *Subject:* Re: [DAWG-HSMM] hsmm help
>>
>>
>>
>>> >> If your equipment is operating properly "network path not found"
>>> probably means that Windows doesn't know how to route to the 10.x.y.z
>>> network.
>>>
>>
>>> Thank you so much. I got it working. Thank you all for giving me a had
>>> with this.
>>> 73
>>> Mark
>>>
>>
>>

>> What was the fix? Is there something that needs to be added to the
>> documentation.
>>
>> Thanks,
>> Bill, WA7NWP
>>
>>
>>
>>
>
>
>
>
>

2734. Re: [DAWG-HSMM] Non-HSMM router

Yahoo group: DAWG-HSMM
Date: 2013-08-31 18:42:52 UTC
From: Rusty Haddock
Topic: 2732 Message: 2734

chiefsfan2 wrote:
>I thought I read where you could plug a normal router into a hsmm router
>then hams with a normal wifi computer could access the network. Is that
>accurate?

In a word, Yes. Plug the WAN (outgoing) port of the "normal" router
into one of the LAN ports of the mesh router. Set the "normal" router
to something like Ch#6 or #11 to avoid interfering with the mesh.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2735. Access Point

Yahoo group: DAWG-HSMM
Date: 2013-09-02 15:51:38 UTC
From: w0uo
Topic: 2735 Message: 2735

DAWG:

In reference to Dale's request for information regarding a non-ham router, is it also possible to connect a non-ham access point to a Broadband Hamnet MESH router via the WAN port? If so, can that access point be operated under part 15 rules? If so, can it be secured via a WEP Key? If required to be operated under Part 97 rules, will the SSID, if set to a call sign, be broadcast at sufficient intervals to satisfy the identification requirements? Are there other issues about how to properly configure the MESH router and the access point? And, finally, what is a crossed RJ45 ethernet cable?

I have an older access point that I would like to employ and, by the way, it appears I can secure it by specifying which MAC addresses will be allowed to connect to it.

Jim Spaulding W0UO

2736. ARRL/TAPR DCC Forum Schedule, Banquet Speaker & Sunday Seminar Announced

Yahoo group: DAWG-HSMM
Date: 2013-09-03 02:43:13 UTC
From: Mark Thompson
Topic: 2326 Message: 2736
Attachments: 1 described; binary payloads are missing from this source WARC

2013 ARRL/TAPR DCC (Digital Communication Conference)
http://www.tapr.org/dcc

Friday, 9/20 - Sunday, 9/22

Cedarbrook Lodge, Seattle, WA
http://www.tapr.org/dcc.html/#hotel

Preliminary DCC Technical & Introductory Forums Schedule
On-Line at link below & attached:
http://www.tapr.org/pdf/DCC_2013_Schedule.pdf

ARRL/TAPR DCC Seattle Saturday Evening Banquet Speaker will be:
Tom Van Baak Presenting
“Passion and Precision: Adventures of a Time Nut”
http://www.tapr.org/dcc#banquet

ARRL/TAPR DCC Seattle Sunday Morning Seminar will be
Conducted by Ron Frohne, KL7NA
Presenting "Android Programming Tutorial"
http://www.tapr.org/dcc#seminar

On-line DCC Registration at:
https://www.tapr.org/dccregistration.php

The Early Bird Discount for DCC Pre-Registration has been extended to midnight Friday, September 13.
Walk-ins will be welcome throughout the DCC, but the Early Bird Discount will no longer be applicable

2737. Re: [DAWG-HSMM] Access Point

Yahoo group: DAWG-HSMM
Date: 2013-09-03 06:24:38 UTC
From: Rusty Haddock
Topic: 2735 Message: 2737

w0uo wrote:
>DAWG:
>
>In reference to Dale's request for information regarding a non-ham router,
>is it also possible to connect a non-ham access point to a Broadband Hamnet
>MESH router via the WAN port?

Physically, yes.

>If so, can that access point be operated under part 15 rules?

IANAL but IMHO if you are running your mesh per Part 97, I would
say no because, as a ham, you are not supposed to be retransmitting
signals from another radio service (e.g. Part 15), emergency situations
aside. See Part 97.113(e) and/or consult a lawyer with expertise in
communications law and dealing with the FCC.

(for the "acronymally" challenged:
IANAL="I Am Not A Lawyer", IMHO=In My Humble Opinion)

>If so, can it be secured via a WEP Key? If required
>to be operated under Part 97 rules, will the SSID, if set to a
>call sign, be broadcast at sufficient intervals to satisfy the
>identification requirements?

Depends on your equipment but the usual default setting by most AP's has
the SSID broadcasting at intervals of 100-msec. Many AP's can change
that setting or turn off the SSID broadcast though.

>Are there other issues about how to properly configure the
>MESH router and the access point?

Operating under Part 97 -- keep the channel # between 1 and 6, inclusive.

>And, finally, what is a crossed RJ45 ethernet cable?

Think of a crossed or crossover 10BaseT Ethernet cable (RJ45 is a type
of connector) as a null modem for Ethernet. A 10BaseT Ethernet cable
consists of 2 to 4 twisted pairs of wires. Per a number of 10BaseT wiring
standards, Pair 1 and Pair 2 consist of wires going to pins #1 & 2 and
#3 & 6, respectively, and are the pairs that transmit data to and from
a host. 10BaseT Ethernet cables are normally wired such that pins 1,2,3
& 6 at one connector are connected to the same pins on the other end.
Crossover cables connect pins 1,2,3 & 6 to 3,6,1, & 2 at the other end,
respectively.

Modern networking equipment will normally automagically swap signals based
upon the connecting cables. Still, there may be times when you have a

need to directly connect, say, two PC's directly without an intervening
hub or switch. Older NICs (Network Interface Controller) may not
automagically reverse the signals and thus a crossover cable is needed.
Use of a crossover 10BaseT Ethernet cable is a bit of a rarity these days.

>I have an older access point that I would like to employ and, by the way, it
>appears I can secure it by specifying which MAC addresses will be allowed to
>connect to it.

Secure? :) Most any network-aware 12-year can spoof MAC addresses (as well
as set the time on your VCR :) but at least you are making an attempt.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2738. Ubiquity bullet

Yahoo group: DAWG-HSMM
Date: 2013-09-05 11:23:00 UTC
From: kd4wov@...
Topic: 2738 Message: 2738

Hello everyone,
This is kd4wov Tom. I am working with a group of hams in the orlando florida to build a hsmm mesh.

Are you all using the ubiquity bullet or other related products? If so, can they communicate with wrt54g machines running the newest firmware??

We are looking at possibility of some other products beside the linksys.

Sent via BlackBerry by AT&T

2739. Re: [DAWG-HSMM] Ubiquity bullet

Yahoo group: DAWG-HSMM
Date: 2013-09-05 18:19:34 UTC
From: Rusty Haddock
Topic: 2738 Message: 2739

kd4wov@... wrote:
>Hello everyone,

>This is kd4wov Tom. I am working with a group of hams in the orlando
>florida to build a hsmm mesh.
>
> Are you all using the ubiquity bullet or other related products?

No, the Broadband-Hamnet group is currently supporting only the WRT54G
(v1-4), GL (all versions), and GS (v1-4) products. Firmware for Atheros
chipset-based routers is being worked on but is not yet available.

You can load an appropriate version of OpenWrt onto a Bullet, load OLSR
and 'dnsmasq', configure them similarly to the BBHN v1.0.0 firmware and
you should get a node that communicates with the v1.0.0 WRT54G's.
Everything would have to be configured by hand but it will work, I've
done it. :)

>If so, can they communicate with wrt54g machines running the newest firmware??
>
> We are looking at possibility of some other products beside the linksys.

Any particular reason why? New WRT54GL's are still readily available
on 'newegg.com' and Amazon (I think).

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2740. Re: [DAWG-HSMM] Ubiquity bullet

Yahoo group: DAWG-HSMM
Date: 2013-09-05 19:45:03 UTC
From: Todd Caldwell
Topic: 2738 Message: 2740

How about writing up a tutorial for that setup, Rusty.

Bullets nodes are something that has been requested over and over. The endian problem is gone now, right ?

A tutorial might be what it takes to get some development going.

Sure a lot easier to install a Bullet outdoors, and they're very rugged. Small too.

Just a thought.

Todd - K5SLR

Rusty Haddock wrote:
> kd4wov@... wrote:
> >Hello everyone,
>
> >This is kd4wov Tom. I am working with a group of hams in the orlando
> >florida to build a hsmm mesh.
> >
> > Are you all using the ubiquity bullet or other related products?
>
> No, the Broadband-Hamnet group is currently supporting only the WRT54G
> (v1-4), GL (all versions), and GS (v1-4) products. Firmware for Atheros
> chipset-based routers is being worked on but is not yet available.
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> You can load an appropriate version of OpenWrt onto a Bullet, load OLSR
> and 'dnsmasq', configure them similarly to the BBHN v1.0.0 firmware and
> you should get a node that communicates with the v1.0.0 WRT54G's.
> Everything would have to be configured by hand but it will work, I've
> done it. :)
>
> >If so, can they communicate with wrt54g machines running the newest firmware??
> >
> > We are looking at possibility of some other products beside the linksys.
>
> Any particular reason why? New WRT54GL's are still readily available
> on 'newegg.com' and Amazon (I think).
>
> -Rusty-
>

2741. Re: [DAWG-HSMM] Ubiquity bullet

Yahoo group: DAWG-HSMM
Date: 2013-09-05 22:58:02 UTC
From: Lew Paceley
Topic: 2738 Message: 2741

Hi,
If you're interested in creating Broadband Hamnet compatible Ubiquiti loads you might save some time by downloading the firmware loads from the NW-MESH gang (also Yahoo) and simply reconfiguring them with the Broadband Hamnet parameters via the web interface. NW-MESH has working HSMM-MESH ports for the older Bullet2/Bullet2HP devices as well as the newer M2 series devices. I'd suggest touching bases with Brian, KY9K, to verify he is o.k. with sharing his work beyond the NW-MESH group.

I have been using the NW-MESH firmware in 2 Bullet M2 Titaniums and an older Bullet2 for about 6 months now at my QTH. I've become a big fan of the UBNT routers because of the variety of choices, the higher power output options, and ease of installation.

73,
Lew
K7GO
MT

On Thu, Sep 5, 2013 at 1:45 PM, Todd Caldwell <tmCaldwell@...> wrote:

> How about writing up a tutorial for that setup, Rusty.
>
> Bullets nodes are something that has been requested over and over. The
> endian problem is gone now, right ?
>
> A tutorial might be what it takes to get some development going.
>
> Sure a lot easier to install a Bullet outdoors, and they're very
> rugged. Small too.
>
> Just a thought.
>
> Todd - K5SLR
>
>
> Rusty Haddock wrote:
> > kd4wov@... wrote:
> > >Hello everyone,
> >
> > >This is kd4wov Tom. I am working with a group of hams in the orlando
> > >florida to build a hsmm mesh.
> > >
> > > Are you all using the ubiquity bullet or other related products?
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> > No, the Broadband-Hamnet group is currently supporting only the WRT54G

> > (v1-4), GL (all versions), and GS (v1-4) products. Firmware for Atheros
> > chipset-based routers is being worked on but is not yet available.
> >
> > You can load an appropriate version of OpenWrt onto a Bullet, load OLSR
> > and 'dnsmasq', configure them similarly to the BBHN v1.0.0 firmware and
> > you should get a node that communicates with the v1.0.0 WRT54G's.
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> >
> > >If so, can they communicate with wrt54g machines running the newest
> firmware??
> > >
> > > We are looking at possibility of some other products beside the
> linksys.
> >
> > Any particular reason why? New WRT54GL's are still readily available
> > on 'newegg.com' and Amazon (I think).
> >
> > -Rusty-
> >
>
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>
> ---
>
> Yahoo! Groups Links
>
>
>
>

2742. RE: [DAWG-HSMM] Non-HSMM router

Yahoo group: DAWG-HSMM
Date: 2013-09-13 02:40:34 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2732 Message: 2742

Rusty et al,

You might also want to turn off DHCP in the access router and ensure that
the "host" mesh node has enough address space defined in its configuration
to accommodate the additional wired and wireless device IPs.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

_____

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf
Of Rusty Haddock
Sent: Saturday, August 31, 2013 6:43 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Non-HSMM router

chiefsfan2 wrote:
>I thought I read where you could plug a normal router into a hsmm router
>then hams with a normal wifi computer could access the network. Is that
>accurate?

In a word, Yes. Plug the WAN (outgoing) port of the "normal" router
into one of the LAN ports of the mesh router. Set the "normal" router
to something like Ch#6 or #11 to avoid interfering with the mesh.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2743. RE: [DAWG-HSMM] Non-HSMM router

Yahoo group: DAWG-HSMM
Date: 2013-09-13 04:57:56 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2732 Message: 2743

Hi Folks!
I am a bit stuck on a Gateway issue.

I have a mesh node WAN port defined as a Gateway and cabled to a Cradlepoint MBR-1000 router's LAN port. I can connect from the mesh to 192.168.x.y addresses as well as to the Internet. The MBR-1000 has a USB cell data card on AT&T which works great!

Aside from that, there is an issue where I can't access the mesh from the ports or the WiFi of the MBR-1000 even though I have set up a route 10.0.0.0 with a mask of 255.0.0.0 to the address of the MBR-1000's LAN port (192.168.0.199) that connects back to the mesh node's WAN port. To confound things further, I can ping and tracert to the mesh node IP as well as the mesh node's WiFi IP from a user device connected to the MBR-1000.

Traceroutes and http don't go into the mesh from the 192.168.x.y side, so I am wondering what I might be doing wrong. Any thoughts on how I can do this correctly?

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Rusty Haddock
Sent: Saturday, August 31, 2013 6:43 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Non-HSMM router

chiefsfan2 wrote:
>I thought I read where you could plug a normal router into a hsmm router
>then hams with a normal wifi computer could access the network. Is that
>accurate?

In a word, Yes. Plug the WAN (outgoing) port of the "normal" router into one of the LAN ports of the mesh router. Set the "normal" router to something like Ch#6 or #11 to avoid interfering with the mesh.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2744. Re: [DAWG-HSMM] Non-HSMM router

Yahoo group: DAWG-HSMM
Date: 2013-09-13 05:26:51 UTC
From: Rusty Haddock
Topic: 2732 Message: 2744

J.Gordon Beattie, Jr., W2TTT wrote:
>Rusty et al,
>
>You might also want to turn off DHCP in the access router and ensure that
>the "host" mesh node has enough address space defined in its configuration
>to accommodate the additional wired and wireless device IPs.

'chiefsfan2' wanted to plug in a normal wifi router to a mesh node for
wireless access to the mesh. Unless the wirelessly connecting hosts were
to provide services (instead of acting more like clients, which I suspect)
then there's not much desire for them to act as pseudo-mesh nodes.
I'd say he probably wants to let said wifi router do its normal thing and
provide DHCP and NAT to those additional hosts, as usual, and not worry
about having enough 10.*.*.* addresses available for all attaching hosts.

Clearly not enough information was provided to say definitively one way
or the other.

>chiefsfan2 wrote:
>>I thought I read where you could plug a normal router into a hsmm router
>>then hams with a normal wifi computer could access the network. Is that
>>accurate?
>
>In a word, Yes. Plug the WAN (outgoing) port of the "normal" router
>into one of the LAN ports of the mesh router. Set the "normal" router
>to something like Ch#6 or #11 to avoid interfering with the mesh.
>
>-Rusty-

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
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|/__V__/ Math illiteracy affects 7 out of 5 people!

2745. Re: [DAWG-HSMM] Non-HSMM router

Yahoo group: DAWG-HSMM
Date: 2013-09-13 06:04:27 UTC
From: Rusty Haddock
Topic: 2732 Message: 2745

J.Gordon Beattie, Jr., W2TTT wrote:
>Hi Folks!
>I am a bit stuck on a Gateway issue.
>
>....
>Traceroutes and http don't go into the mesh from the 192.168.x.y side, so I
>am wondering what I might be doing wrong. Any thoughts on how I can do this
>correctly?

Technically, you're not doing anything wrong -- a gateway mesh node is supposed to act this way although your expectations may need some adjustment. :) Remember, there is still a firewall for inbound packets from the WAN. It was the intentions of the lead developer of the BBHN firmware to let the mesh freely access the outside world but not vice versa. I've argued,er... DISCUSSED the desire to go the other way with AD5OO to no avail.

You can punch holes in the WAN firewall with the web interface but they can only be directed to the node itself or one of the hosts on its LAN.

If you want to allow unhindered connections from the WAN to mesh nodes then you'll need to find someone that understands 'iptables' and change its configuration and startup scripts.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2746. Re: [DAWG-HSMM] Non-HSMM router

Yahoo group: DAWG-HSMM
Date: 2013-09-13 16:10:19 UTC
From: Bill Vodall
Topic: 2732 Message: 2746

>Traceroutes and http don't go into the mesh from the 192.168.x.y side, so I
>am wondering what I might be doing wrong. Any thoughts on how I can do this
>correctly?

This article in Linux Journal may have some useful insights on routing...

http://www.linuxjournal.com/content/linux-advanced-routing-tutorial?page=0,0

73,
Bill WA7NWP

2747. RE: [DAWG-HSMM] Non-HSMM router

Yahoo group: DAWG-HSMM
Date: 2013-09-16 02:49:25 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2732 Message: 2747

Rusty,

I see AD5OO's point, however I would think it to be different accessing the mesh WAN port from a local192 address vs. an external, public IP address.

Where does one do the administration for the WAN firewall in the mesh node? That is an intriguing idea and the limitation that it would be for specific hosts on the mesh LAN is a reasonable compromise for now.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Rusty Haddock
Sent: Friday, September 13, 2013 6:04 AM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Non-HSMM router

J.Gordon Beattie, Jr., W2TTT wrote:
>Hi Folks!
>I am a bit stuck on a Gateway issue.
>
>....
>Traceroutes and http don't go into the mesh from the 192.168.x.y side, so I
>am wondering what I might be doing wrong. Any thoughts on how I can do this
>correctly?

Technically, you're not doing anything wrong -- a gateway mesh node is supposed to act this way although your expectations may need some adjustment. :) Remember, there is still a firewall for inbound packets from the WAN. It was the intentions of the lead developer of the BBHN firmware to let the mesh freely access the outside world but not vice versa. I've argued,er... DISCUSSED the desire to go the other way with AD5OO to no avail.

You can punch holes in the WAN firewall with the web interface but they can only be directed to the node itself or one of the hosts on its LAN.

If you want to allow unhindered connections from the WAN to mesh nodes then you'll need to find someone that understands 'iptables' and change its configuration and startup scripts.

```
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2748. RE: [DAWG-HSMM] Non-HSMM router

Yahoo group: DAWG-HSMM
Date: 2013-09-16 02:50:27 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2732 Message: 2748

Bill,

Thanks for the reference to the article. I will read it and see if I can use that information with Rusty's insights on how to punch holes in the mesh WAN firewall.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Bill Vodall
Sent: Friday, September 13, 2013 4:10 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Non-HSMM router

>Traceroutes and http don't go into the mesh from the 192.168.x.y side, so I
>am wondering what I might be doing wrong. Any thoughts on how I can do this
>correctly?

This article in Linux Journal may have some useful insights on routing...

http://www.linuxjournal.com/content/linux-advanced-routing-tutorial?page=0,0

73,
Bill WA7NWP

2749. Re: [DAWG-HSMM] Non-HSMM router

Yahoo group: DAWG-HSMM
Date: 2013-09-16 17:46:17 UTC
From: Rusty Haddock
Topic: 2732 Message: 2749

J.Gordon Beattie, Jr., W2TTT wrote:
>Rusty,
>
>I see AD5OO's point, however I would think it to be different accessing the
>mesh WAN port from a local192 address vs. an external, public IP address.

The WAN port doesn't know if it's physcially connected to the Internet or
a local net so keep the config simple. If not, you have to manual change
the config depending on what the WAN is connected to. Change your LAN
ports to use 192.168.*.* addresses instead of 172.27.*.* and you get
really messed up, don't ya? :)

>Where does one do the administration for the WAN firewall in the mesh node?
>That is an intriguing idea and the limitation that it would be for specific
>hosts on the mesh LAN is a reasonable compromise for now.

That would be the gateway mesh node's LAN.

The WAN firewall is admin'd in Setup->Port Forwarding, DHCP, Services
page. If you're in Direct mode then the WAN port is the only one
available for port forwarding. If you're in NAT mode then WiFi and WAN
ports are available.

If you want to forward a particular port on the gateway's WAN port to a
particular port of partiicular mesh node you'll have to do that manually
by editting /etc/config.mesh/firewall.user and restart the firewall.
You just have to know what to edit. :)

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2750. Plano Balloon Festival (PBF)

Yahoo group: DAWG-HSMM
Date: 2013-09-17 15:51:43 UTC
From: <kip@...>
Topic: 2750 Message: 2750

We are going to try to do the MESH again this year at the Plano Balloon Festival.

I am going simplified this year. The Communications Trailer and the Special Event Trailer both want the MESH.

I will get more nodes reprogrammed to the 1.0 software tonight.

Tomorrow at 6:00 p.m. I will be setting up the node on the roof of the church.
Thursday I will set the node at the two trailers after work if it is not raining too bad.

On the church I plan to use a 24 db antenna with horizontal polarity.
At the Comm Trailer the same thing.
At the Special Event trailer a 15 db Rootenna.

If you can help let me know.

The only problem in the whole mess is that a few minutes ago I was told I may have to go to San Jose, CA Thursday or Monday. Monday is not a problem, but if I have to go in two days there will be problems with getting the MESH going and maintained during the PBF and I will need help.

Kip

2751. RE: Plano Balloon Festival (PBF)

Yahoo group: DAWG-HSMM
Date: 2013-09-17 16:33:48 UTC
From: <ims.ihc@...>
Topic: 2750 Message: 2751

I may be able to help, need to check with the wife. I have a handful of nodes that need to be loaded with the new firmware if they are needed. There is also a node in my rig with the new firmware with stock antennas we could use for testing. Ian Stubbs KC5DFC

2752. Re: [DAWG-HSMM] Plano Balloon Festival (PBF)

Yahoo group: DAWG-HSMM
Date: 2013-09-17 18:31:22 UTC
From: Jimmy Dominguez
Topic: 2750 Message: 2752

Kip, to clarify there will be no HSMM-Mesh at Field Ops?

And also to confirm, you are going to run version 1.0 right?

Jimmy

On Tue, Sep 17, 2013 at 10:51 AM, <kip@...> wrote:

> **
>
>
> We are going to try to do the MESH again this year at the Plano Balloon
> Festival.
>
> I am going simplified this year. The Communications Trailer and the
> Special Event Trailer both want the MESH.
>
>
>
> I will get more nodes reprogrammed to the 1.0 software tonight.
>
>
>
> Tomorrow at 6:00 p.m. I will be setting up the node on the roof of the
> church.
>
> Thursday I will set the node at the two trailers after work if it is not
> raining too bad.
>
>
>
> On the church I plan to use a 24 db antenna with horizontal polarity.
>
> At the Comm Trailer the same thing.
>
> At the Special Event trailer a 15 db Rootenna.
>
>
>
> If you can help let me know.
>
>
>
> The only problem in the whole mess is that a few minutes ago I was told I
> may have to go to San Jose, CA Thursday or Monday. Monday is not a
> problem, but if I have to go in two days there will be problems with

> getting the MESH going and maintained during the PBF and I will need help.
>
>
> Kip
>
>
>

2753. RE: Re: [DAWG-HSMM] Plano Balloon Festival (PBF)

Yahoo group: DAWG-HSMM
Date: 2013-09-17 20:17:39 UTC
From: <kip@...>
Topic: 2750 Message: 2753

Field OPS said they did not need the MESH.

Comm Trailer and K5P said they did.

And That is correct, I am going to run 1.0. The new version.

Kip

--- In DAWG-HSMM@yahoogroups.com, <dawg-hsmm@yahoogroups.com> wrote:

Kip, to clarify there will be no HSMM-Mesh at Field Ops?

And also to confirm, you are going to run version 1.0 right?

Jimmy

On Tue, Sep 17, 2013 at 10:51 AM, <kip@kdream.com> wrote:

We are going to try to do the MESH again this year at the Plano Balloon Festival.

I am going simplified this year. The Communications Trailer and the Special Event Trailer both want the MESH.

I will get more nodes reprogrammed to the 1.0 software tonight.

Tomorrow at 6:00 p.m. I will be setting up the node on the roof of the church.

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On the church I plan to use a 24 db antenna with horizontal polarity.
At the Comm Trailer the same thing.

At the Special Event trailer a 15 db Rootenna.

If you can help let me know.

The only problem in the whole mess is that a few minutes ago I was told I may have to go to San Jose, CA Thursday or Monday. Monday is not a problem, but if I have to go in two days there will be problems with getting the MESH going and maintained during the PBF and I will need help.

Kip

2754. RE: RE: Plano Balloon Festival (PBF)

Yahoo group: DAWG-HSMM
Date: 2013-09-17 20:20:12 UTC
From: <kip@...>
Topic: 2750 Message: 2754

I will know more tonight. But we are only using 3 nodes, so I do not think I need other nodes except for testing.

Kip

--- In DAWG-HSMM@yahoogroups.com, <dawg-hsmm@yahoogroups.com> wrote:

I may be able to help, need to check with the wife. I have a handful of nodes that need to be loaded with the new firmware if they are needed. There is also a node in my rig with the new firmware with stock antennas we could use for testing. Ian Stubbs KC5DFC

2755. Re: Re: [DAWG-HSMM] Plano Balloon Festival (PBF)

Yahoo group: DAWG-HSMM
Date: 2013-09-17 20:42:24 UTC
From: Jimmy Dominguez
Topic: 2750 Message: 2755

Thanks!

On Tue, Sep 17, 2013 at 3:17 PM, <kip@...> wrote:

> **
>
>
> Field OPS said they did not need the MESH.
>
>
>
> Comm Trailer and K5P said they did.
>
>
>
> And That is correct, I am going to run 1.0. The new version.
>
>
>
> Kip
>
>
> --- In DAWG-HSMM@yahoogroups.com, <dawg-hsmm@yahoogroups.com> wrote:
>
> Kip, to clarify there will be no HSMM-Mesh at Field Ops?
>
> And also to confirm, you are going to run version 1.0 right?
>
> Jimmy
>
>
> On Tue, Sep 17, 2013 at 10:51 AM, <kip@...> wrote:
>
> **
>
>
> We are going to try to do the MESH again this year at the Plano Balloon
> Festival.
>
> I am going simplified this year. The Communications Trailer and the
> Special Event Trailer both want the MESH.
>
>
>
> I will get more nodes reprogrammed to the 1.0 software tonight.

>
>
>
> Tomorrow at 6:00 p.m. I will be setting up the node on the roof of the
> church.
>
> Thursday I will set the node at the two trailers after work if it is not
> raining too bad.
>
>
>
> On the church I plan to use a 24 db antenna with horizontal polarity.
>
> At the Comm Trailer the same thing.
>
> At the Special Event trailer a 15 db Rootenna.
>
>
>
> If you can help let me know.
>
>
>
> The only problem in the whole mess is that a few minutes ago I was told I
> may have to go to San Jose, CA Thursday or Monday. Monday is not a
> problem, but if I have to go in two days there will be problems with
> getting the MESH going and maintained during the PBF and I will need help.
>
>
> Kip
>
>
>
>

2756. RE: RE: RE: Plano Balloon Festival (PBF)

Yahoo group: DAWG-HSMM
Date: 2013-09-18 18:00:55 UTC
From: <ims.ihc@...>
Topic: 2750 Message: 2756

I am available this evening to assist in setting up the nodes if needed. Let me know where I need to go.

Ian Stubbs
KC5DFC

--- In DAWG-HSMM@yahoogroups.com, <dawg-hsmm@yahoogroups.com> wrote:

I will know more tonight. But we are only using 3 nodes, so I do not think I need other nodes except for testing.

Kip

--- In DAWG-HSMM@yahoogroups.com, <dawg-hsmm@yahoogroups.com> wrote:

I may be able to help, need to check with the wife. I have a handful of nodes that need to be loaded with the new firmware if they are needed. There is also a node in my rig with the new firmware with stock antennas we could use for testing. Ian Stubbs KC5DFC

2757. Re: [DAWG-HSMM] RE: RE: RE: Plano Balloon Festival (PBF)

Yahoo group: DAWG-HSMM
Date: 2013-09-18 21:59:59 UTC
From: Rusty Haddock
Topic: 2750 Message: 2757

ims.ihc@... wrote:
I am available this evening to assist in setting up the nodes if needed. Let me know where I need to go.

Ian Stubbs
KC5DFC

First United Methodist Church on Spring Creek & Parker. I s'pose listen in on the 147.18+/pl107.2 repeater as I'll try to be on it coming south from Grayson Co.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2758. Digital Tuesday again?

Yahoo group: DAWG-HSMM
Date: 2013-09-25 05:45:02 UTC
From: Rusty Haddock
Topic: 2758 Message: 2758

For you folks in the Dallas area:

Kip and I have talked about starting up Digital Tuesday meetings again. Not quite sure where to go that we haven't gone before but for a first meeting it was thought that going over the changes with the v1.0.0 Broadband-Hamnet firmware would be a reasonable start.

We're still working on a place to meet. I wouldn't mind if it moved around, maybe up and down US75 to accommodate more folks, from Richardson and Plano up to Sherman/Denison. The back rooms at Scotty P's in Allen and McKinney shouldn't be bad for general get-togethers (non-formal talks). McKinney Fire House #7, while rather off to the west in McKinney, is spacious, has great facilities for A/V presentations, and Internet access. I just discovered the new McK. Fire House #6 southeast of US75 and Eldorado so I may investigate it since it appears to have a good-sized community room as well. Not sure about Grayson Co. College South Campus in Van Alstyne being available again.

So, yeah there's a bit up in the air right now but I wanted to see if anyone is interested? If so, any thoughts? Since 1st Tuesday would be a bit of a squeeze right now we thought we'd go for 3rd Tuesday in October, the 15th, to start us off.

Let's discuss it here on the list.

-Rusty-

P.S. We have no plans nor are we willing to make any plans with regards to video recording or streaming the meetings as it is far too much of a pain in the tookus to do reasonably well. Besides, the NSA already has all it needs on me. :)
--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
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```

2759. RE: Digital Tuesday again?

Yahoo group: DAWG-HSMM
Date: 2013-09-25 13:30:14 UTC
From: <ke5peq@...>
Topic: 2758 Message: 2759

I'm ready to get back to it ! Lots of changes, and I have such an open mind something is bound to stick !!!

Jimmy
ke5peq

---In dawg-hsmm@yahoogroups.com, <rusty@...> wrote:

For you folks in the Dallas area:

Kip and I have talked about starting up Digital Tuesday meetings again. Not quite sure where to go that we haven't gone before but for a first meeting it was thought that going over the changes with the v1.0.0 Broadband-Hamnet firmware would be a reasonable start.

We're still working on a place to meet. I wouldn't mind if it moved around, maybe up and down US75 to accommodate more folks, from Richardson and Plano up to Sherman/Denison. The back rooms at Scotty P's in Allen and McKinney shouldn't be bad for general get-togethers (non-formal talks). McKinney Fire House #7, while rather off to the west in McKinney, is spacious, has great facilities for A/V presentations, and Internet access. I just discovered the new McK. Fire House #6 southeast of US75 and Eldorado so I may investigate it since it appears to have a good-sized community room as well. Not sure about Grayson Co. College South Campus in Van Alstyne being available again.

So, yeah there's a bit up in the air right now but I wanted to see if anyone is interested? If so, any thoughts? Since 1st Tuesday would be a bit of a squeeze right now we thought we'd go for 3rd Tuesday in October, the 15th, to start us off.

Let's discuss it here on the list.

-Rusty-

P.S. We have no plans nor are we willing to make any plans with regards to video recording or streaming the meetings as it is far too much of a pain in the tookus to do reasonably well. Besides, the NSA already has all it needs on me. :)
--
_____ Rusty Haddock <=> AE5AE
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|/__V__/ Math illiteracy affects 7 out of 5 people!

2760. RE: Digital Tuesday again?

Yahoo group: DAWG-HSMM
Date: 2013-09-25 14:12:51 UTC
From: Ian Stubbs
Topic: 2758 Message: 2760

Count me in. I want to see some node implementation in the area and it would be good to start talking about practical applications we can run over the network to build interest.

Ian Stubbs
KC5DFC

2761. Digital Tuesday rides again -- Tuesday, October 15th

Yahoo group: DAWG-HSMM
Date: 2013-10-10 03:07:59 UTC
From: Rusty Haddock
Topic: 2761 Message: 2761

OK, I struck out with the McKinney firehouses. Apparently, only FH #5 and #7 have rooms that are now reservable by the public and both were taken for the upcoming Tuesday night. I was able to reserve the backroom at Scotty P's Hamburgers in McKinney. We have the room for 7-8:30pm (closing time) next Tuesday, October 15th. The address is 2950 Craig Drive, McKinney, in the NW corner of Eldorado Pkwy and US-75. You may have to wander and wind around the construction in the area a bit but it's not too hard.

Come early to eat your meal, if you want, so we can get started as soon as we can since the restaurant closes at 8:30pm. I'll try to bring a power strip or two for laptops and nodes, if you want to bring yours.

I am NOT planning an A/V-style presentation so it will be more of a talk and discussion, maybe with a handout. Initially, I'd like to go over the changes in the v1.0.0 firmware and how to proceed with our resurrection. With time permitting, possibly go over our success with 3.3-GHz gear at the Plano Balloon Fest, and some discussion about experimentation we can do, individually and as a group, before the weather turns too cold.

Do give some serious thought to and be on the look out for locations on which to do range testing. Large parks or other recreation areas would be great for starters but I'd like to know about any places for long distance testing, say on the order of 1-5 miles.

See you next Tuesday night!

-Rusty-
--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2762. RE: Digital Tuesday rides again -- Tuesday, October 15th

Yahoo group: DAWG-HSMM
Date: 2013-10-11 15:46:44 UTC
From: <ims.ihc@...>
Topic: 2761 Message: 2762

See you all on Tuesday. I will have a node in the Jeep running, let me know if I need to bring another. Beyond that I have an IP phone now running with raspbx. Do we want to play with any extra peripherals like that or stick to the show and tell on the new firmware? On that note I can bring the set of 3 Ghz radios I was able to procure if anyone wants to mess with them.

---In DAWG-HSMM@yahoogroups.com, <dawg-hsmm@yahoogroups.com> wrote:

OK, I struck out with the McKinney firehouses. Apparently, only FH #5 and #7 have rooms that are now reservable by the public and both were taken for the upcoming Tuesday night. I was able to reserve the backroom at Scotty P's Hamburgers in McKinney. We have the room for 7-8:30pm (closing time) next Tuesday, October 15th. The address is 2950 Craig Drive, McKinney, in the NW corner of Eldorado Pkwy and US-75. You may have to wander and wind around the construction in the area a bit but it's not too hard.

Come early to eat your meal, if you want, so we can get started as soon as we can since the restaurant closes at 8:30pm. I'll try to bring a power strip or two for laptops and nodes, if you want to bring yours.

I am NOT planning an A/V-style presentation so it will be more of a talk and discussion, maybe with a handout. Initially, I'd like to go over the changes in the v1.0.0 firmware and how to proceed with our resurrection. With time permitting, possibly go over our success with 3.3-GHz gear at the Plano Balloon Fest, and some discussion about experimentation we can do, individually and as a group, before the weather turns too cold.

Do give some serious thought to and be on the look out for locations on which to do range testing. Large parks or other recreation areas would be great for starters but I'd like to know about any places for long distance testing, say on the order of 1-5 miles.

See you next Tuesday night!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2763. Re: [DAWG-HSMM] RE: Digital Tuesday rides again -- Tuesday, October 15th

Yahoo group: DAWG-HSMM
Date: 2013-10-15 02:24:33 UTC
From: Rusty Haddock
Topic: 2761 Message: 2763

OK, here's a reminder --
Tuesday, October 15th
Scotty P's Hamburger in McKinney.
2950 Craig Drive, McKinney,

Scotty P's is located in the NW corner of Eldorado Pkwy and US-75.
You may have to wander and wind around the construction in the area a
bit but it's not too hard. Alright, the lat/lon is 33.174178, -96.643880
from Google Maps. We'll be in the back room.

Since Scotty P's closes at 8:30pm, should we want to continue further,
maybe showing off our projects and whatnot, we can move to DQ or similar
location.

Anyhoot, like Ian I will bring my Raspberry Pi as well which is also
acting as a standalone mesh node.

See you there?

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2764. Re: [DAWG-HSMM] RE: Digital Tuesday rides again -- Tuesday, October 15th

Yahoo group: DAWG-HSMM
Date: 2013-10-15 03:23:18 UTC
From: Kipton Moravec
Topic: 2761 Message: 2764

On Mon, 2013-10-14 at 21:24 -0500, Rusty Haddock wrote:
> OK, here's a reminder --
> Tuesday, October 15th
> Scotty P's Hamburger in McKinney.
> 2950 Craig Drive, McKinney,
>
> Scotty P's is located in the NW corner of Eldorado Pkwy and US-75.
> You may have to wander and wind around the construction in the area a
> bit but it's not too hard. Alright, the lat/lon is 33.174178, -96.643880
> from Google Maps. We'll be in the back room.
>
> Since Scotty P's closes at 8:30pm, should we want to continue further,
> maybe showing off our projects and whatnot, we can move to DQ or similar
> location.
>
> Anyhoot, like Ian I will bring my Raspberry Pi as well which is also
> acting as a standalone mesh node.
>
> See you there?
>

What time should we try to get there?

Kip

2765. Re: [DAWG-HSMM] RE: Digital Tuesday rides again -- Tuesday, October 15th

Yahoo group: DAWG-HSMM
Date: 2013-10-15 04:08:19 UTC
From: Rusty Haddock
Topic: 2761 Message: 2765

Kipton Moravec wrote:
>What time should we try to get there?

Oopppss... fergot that on the reminder but we'll start the meeting at 7pm
so it wouldn't be a bad idea to get there earlier to get your food, etc.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2766. Our next Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2013-11-14 03:09:13 UTC
From: Rusty Haddock
Topic: 2766 Message: 2766

Our next meeting for Digital Tuesday will be next Tuesday, Nov. 19th. New time -- 6pm -- at Southern Recipes Cafe, 1381 West Campbell Rd, Richardson. This restaurant is west of US75 on Campbell, just east of Coit Rd, on the south side of Campbell across from La Madeleine restaurant on the north side. Doug was able to reserve us a table for 10 in the back room.

Remember -- new time -- 6pm.

There's no presentation planned so it'll be pretty much like our last meeting at Scotty P's -- just whatever comes up for discussion. So, bring yer questions or new toys or both!!!

See ya there.

-Rusty-
--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2767. RE: [DAWG-HSMM] Non-HSMM router

Yahoo group: DAWG-HSMM
Date: 2013-11-14 04:10:11 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2732 Message: 2767

Rusty,

I missed your response! Thank you so very much! I think we will try to edit the firewall and restart it to allow access from the "wild side" to specific mesh addresses/devices.

When we test this, we'll let you know! Thanks again for your helpful information!

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Rusty Haddock
Sent: Monday, September 16, 2013 5:46 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Non-HSMM router

J.Gordon Beattie, Jr., W2TTT wrote:
>Rusty,
>
>I see AD5OO's point, however I would think it to be different accessing the
>mesh WAN port from a local192 address vs. an external, public IP address.

The WAN port doesn't know if it's physcially connected to the Internet or a local net so keep the config simple. If not, you have to manual change the config depending on what the WAN is connected to. Change your LAN ports to use 192.168.*.* addresses instead of 172.27.*.* and you get really messed up, don't ya? :)

>Where does one do the administration for the WAN firewall in the mesh node?
>That is an intriguing idea and the limitation that it would be for specific
>hosts on the mesh LAN is a reasonable compromise for now.

That would be the gateway mesh node's LAN.

The WAN firewall is admin'd in Setup->Port Forwarding, DHCP, Services page. If you're in Direct mode then the WAN port is the only one available for port forwarding. If you're in NAT mode then WiFi and WAN ports are available.

If you want to forward a particular port on the gateway's WAN port to a particular port of partiicular mesh node you'll have to do that manually

by editting /etc/config.mesh/firewall.user and restart the firewall.
You just have to know what to edit. :)

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2768. HSMM Mesh in Metro Detroit

Yahoo group: DAWG-HSMM
Date: 2013-11-14 13:52:11 UTC
From: kc8bdk
Topic: 2768 Message: 2768

Rusty
All

I have been following the group for quite some time now.. its nice to have found a way to transfer large lists and more without the issues of voice comms.

I have sparked an interest with the ARES/RACES group in Macomb County Michigan, and am in need of a subject matter expert for a "201" level class in HSMM Mesh.

Any possible contacts this far north??

without contacts... any training material suggestions??

Paul, KC8BDK
EC/RO Macomb county Michigan

2769. Trip to Palestine TX High Altitude Balloon Facility

Yahoo group: DAWG-HSMM
Date: 2013-11-14 15:52:47 UTC
From: Douglas Kilgore
Topic: 2769 Message: 2769

A friend of mine lives in the Highland Springs Retirement Community in North Dallas. They are organizing an all day bus excursion to the NASA High Altitude Balloon Facility in Palestine, TX. See: http://en.wikipedia.org/wiki/Columbia_Scientific_Balloon_Facility

I'm going. They are trying to fill the bus. There is one more seat available. The cost is $35 lunch included.

Date: Monday, Nov. 18.
Departure time: 7:15am
Location: Highland Springs, 8000 Frankford Road, Dallas, TX 75252

If you are interested in making the trip, call me ASAP at 214-770-2394.

Doug Kilgore KD5OUG

2770. Re: [DAWG-HSMM] HSMM Mesh in Metro Detroit

Yahoo group: DAWG-HSMM
Date: 2013-11-14 19:45:34 UTC
From: Rusty Haddock
Topic: 2768 Message: 2770

kc8bdk wrote:
>Rusty
>All
>

>I have been following the group for quite some time now.. its nice
>to have found a way to transfer large lists and more without the
>issues of voice comms.
>
>I have sparked an interest with the ARES/RACES group in Macomb
>County Michigan, and am in need of a subject matter expert for a
>"201" level class in HSMM Mesh.
>
>Any possible contacts this far north??

Paul, Try the map on http://hsmm-mesh.org/googlemapped-mesh-nodes.html
These are just folks with registered nodes so I'm aware if they are
knowledgable or even close to you. Maybe they know of others that
are toying with Broadband-Hamnet that can help you but that are not on
the map.

Also, the list of elmers doesn't have anybody for Michigan or most
surrounding states.

>without contacts... any training material suggestions??

I would go through the documents and other files on tap at hsmm-mesh.org.
There's also the ebook, "Wireless Networking in the Developing World",
available at wndw.net. Lots of good technical information there,
especially in the third/latest edition but not much on "training".
Some of the group's slide presentations are available are up there
as well. Kinda depends on what you want to "train" about?

As always, you're certainly welcome to ask question here or on the
forums at hsmm-mesh.org.

Best of luck!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2771. HSMM Mesh in Metro Detroit

Yahoo group: DAWG-HSMM
Date: 2013-11-14 19:57:58 UTC
From: jimk8cop@...
Topic: 2768 Message: 2771

Monroe, Muskegon Counties, and several others. Do a web search with Michigan. Everyone should pop up.

Check Yahoogroups.

Jim,K8COP
Muskegon County
Sent from my Verizon Wireless BlackBerry

2772. Re: [DAWG-HSMM] HSMM Mesh in Metro Detroit

Yahoo group: DAWG-HSMM
Date: 2013-11-14 19:59:49 UTC
From: Rusty Haddock
Topic: 2768 Message: 2772

```
Rusty Haddock wrote:
>...
>Paul, Try the map on http://hsmm-mesh.org/googlemapped-mesh-nodes.html
>These are just folks with registered nodes so I'm aware if they are

Make that "not aware". :)

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2773. I will be presenting at teh Cowtown Hamfest

Yahoo group: DAWG-HSMM
Date: 2013-11-16 01:33:40 UTC
From: Kipton Moravec
Topic: 2773 Message: 2773

I have been asked to give a presentation on our MESH activities at the Cowtown Hamfest on January 18.

The Lockeed Recreational Center where it is located will be sold to a developer so they will not be at that location after 2014. No telling what will happen next year.

The sponsoring club has changed their name to Cowtown Ham Radio Club. Same people, new name.

Kip

2774. Re: [DAWG-HSMM] Our next Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2013-11-18 18:17:34 UTC
From: Rusty Haddock
Topic: 2766 Message: 2774

Just a reminder...

Our next meeting for Digital Tuesday will be next Tuesday, Nov. 19th. New time -- 6pm -- at Southern Recipes Cafe, 1381 West Campbell Rd, Richardson. This restaurant is west of US75 on Campbell, just east of Coit Rd, on the south side of Campbell across from La Madeleine restaurant on the north side. Doug was able to reserve us a table for 10 in the back room.

Remember -- new time -- 6pm.

There's no presentation planned so it'll be pretty much like our last meeting at Scotty P's -- just whatever comes up for discussion. So, bring yer questions or new toys or both!!!

See ya there.

-Rusty-

```
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2775. BBHN Support for Ubiquiti Device nears Release

Yahoo group: DAWG-HSMM
Date: 2013-11-19 06:38:00 UTC
From: Rusty Haddock
Topic: 2775 Message: 2775

Obviously you folks missed this news item:

http://hsmm-mesh.org/documentation/179-ubiquiti-support-now-in-beta-test

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2776. New node soon to be up in Bedford, Texas

Yahoo group: DAWG-HSMM
Date: 2013-11-25 02:13:50 UTC
From: <kenthasi@...>
Topic: 2776 Message: 2776

The Bedford ARC has been using BBHN (HSMM MESH) for quite some time for different purposes. Last year it was used to link several computers to a central server for logging during Field Day. I was hoping that there would be a node listed on the BBHN webpage by now, but, it looks like that was not in the cards. So, I had to take matters into my own hands. The various pieces of equipment are beggining to arrive to put up my node in Bedford. It won't be that high, about 30 feet, but I am hopeful that it will only be the beggining. My plan is to use an 8 db omni antenna I already have, mounted on top of my chimney. I have two Linksys routers loaded with BBHN 1.0.0. I plan on using the second unit for testing around the area, as well as portable use eventually. Long term I want to get a few more nodes for portable use. I am hoping to eventually get enough people interested and putting up nodes so that it will hopefully allow for a VOIP network, and possibly a ROIP network. A little ambitious I know, but there have already been a couple of people approach me about helping them get set up. Both of them have towers and want to mount BBHN antennas at 75-80 foot high. So, look for the node on the air soon.

2777. RE: [DAWG-HSMM] Chat server

Yahoo group: DAWG-HSMM
Date: 2013-12-10 21:44:04 UTC
From: <michellezenner@...>
Topic: 2704 Message: 2777

I did not see the instructions attached to the yahoo group as stated earlier, but I did read the instructions at HSMM online.

I'm using BBHNv1 firmware w/ LAN 5 and still have to forward ports 6667 to get the IRC chat to work.

Chatzilla needs the port number also to send files.

The name of the localnode:6667 works on the *ngircd loaded side* of the node, but a secondary node needs the direct *nodename-X:6667* and then #mesh room in order to be in the same chat room. STILL file transfers from the secondary node will oftentimes go to the $Server room in ngircd (which no one in chat is physically visiting but we are all using it....) instead of the #mesh room.

How to edit ngircd on the node? Thanks.

2778. Re: [DAWG-HSMM] Chat server

Yahoo group: DAWG-HSMM
Date: 2013-12-11 00:48:51 UTC
From: Rusty Haddock
Topic: 2704 Message: 2778

michellezenner@... wrote:
>I did not see the instructions attached to the yahoo group as stated earlier, but I did read the instructions at HSMM online.
>
>I'm using BBHNv1 firmware w/ LAN 5 and still have to forward ports 6667 to get the IRC chat to work.

Shouldn't need to UNLESS you want to access the IRC server via the
WAN port. With Direct 5 mode, that's the only interface you can forward
ports from.

>...
>How to edit ngircd on the node? Thanks.

The config file is /etc/ngircd.conf and it can be editted with 'vi'.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2779. Next Digital Tuesday, Dec 17th.

Yahoo group: DAWG-HSMM
Date: 2013-12-13 18:44:58 UTC
From: Rusty Haddock
Topic: 2779 Message: 2779

Folks,

Using a room at Grayson County College in Van Alstyne is out.
One, the Grayson Co. folk have been busy with other things and two,
the college wasn't available due to finishing up construction. We may
get a shot in February or March depending on how schedules match up.

So, what do we wanna do?

Have a play date and bring our cameras and SIP phones and whatnot?
(If so I'll try to get the community room at the VAFD.)

Just have a meet at a McKinney burger joint? The Brahm's in VA
is nice too. (I'm not sure our past numbers really necessitate
a reservation)

Blow it off until January?

Lemme know ASAP!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2780. Re: [DAWG-HSMM] Next Digital Tuesday, Dec 17th.

Yahoo group: DAWG-HSMM
Date: 2013-12-13 19:25:52 UTC
From: Douglas Kilgore
Topic: 2779 Message: 2780

Tis a busy season. I'm all for skipping it.

Doug KD5OUG

On 12/13/2013 12:44 PM, Rusty Haddock wrote:
> Blow it off until January?
>
> Lemme know ASAP!
>
> -Rusty-

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2781. Re: [DAWG-HSMM] Next Digital Tuesday, Dec 17th.

Yahoo group: DAWG-HSMM
Date: 2013-12-14 19:31:05 UTC
From: Kipton Moravec
Topic: 2779 Message: 2781

We can do old school and go to the Pool House in Lucas.

Kip

On Fri, 2013-12-13 at 13:25 -0600, Douglas Kilgore wrote:
> Tis a busy season. I'm all for skipping it.
>
> Doug KD5OUG
>
> On 12/13/2013 12:44 PM, Rusty Haddock wrote:
> > Blow it off until January?
> >
> > Lemme know ASAP!
> >
> > -Rusty-
>
>
> ---
> This email is free from viruses and malware because avast! Antivirus protection is active.
> http://www.avast.com
>
>
>
> ------------------------------------
>
> Yahoo Groups Links
>
>
>
>

2782. Anyone going to orlando, fl hamcation?

Yahoo group: DAWG-HSMM
Date: 2013-12-14 19:51:22 UTC
From: kd4wov@...
Topic: 2782 Message: 2782

Just curious if any one is coming to hamcation?

There several others in the area who are just starting with hsmm mesh. And some old timers from south Fl might be here.

De kd4wov Tom

Sent via BlackBerry by AT&T

2783. Re: [DAWG-HSMM] Anyone going to orlando, fl hamcation?

Yahoo group: DAWG-HSMM
Date: 2013-12-14 19:52:59 UTC
From: Darrell Null
Topic: 2782 Message: 2783

I am planning on going.

Darrell Null
On Dec 14, 2013 2:51 PM, <kd4wov@earthlink.net> wrote:

>
>
> Just curious if any one is coming to hamcation?
>
> There several others in the area who are just starting with hsmm mesh. And
> some old timers from south Fl might be here.
>
> De kd4wov Tom
>
> Sent via BlackBerry by AT&T
>
>

2784. RE: Next Digital Tuesday, Dec 17th.

Yahoo group: DAWG-HSMM
Date: 2013-12-16 21:24:06 UTC
From: <kip@...>
Topic: 2779 Message: 2784

What was the decision for tomorrow night?

I saw one lets not do one this month, and one suggestion for Pool House and one suggestion for McKinney Brahms on Virginia which I could not find. I did find one
http://maps.google.com/maps?sugexp=ernk_timecombined&gs_rn=32&gs_ri=psy-ab&tok=tA6rZESlwyToc6wzFkWBDA&pq=brahms+virginia+street,+mckinney+tx&cp=7&gs_id=4w&xhr=t&rlz=1C1KMZB_enUS512US514&espv=210&es_sm=122&bav=on.2,or.r_cp.r_qf.&bvm=bv.57967247,d.aWc&biw=1920&bih=954&bs=1&um=1&ie=UTF-8&q=braums+mckinney+tx&fb=1&hq=braums&hnear=0x864c125aa0745495:0xaa290ada6420a624,McKinney,+TX&cid=5807332155066850386&sa=X&ei=9G6vUoDpI5LiyAH4oYCIBQ&sqi=2&ved=0CDcQrwswAA
1800 N Central Expy, McKinney, TX 75070, United States
which is near University and 75 SE corner. .

Three responses three different answers. Someone else be a deciding vote.

Kip

2785. Re: [DAWG-HSMM] RE: Next Digital Tuesday, Dec 17th.

Yahoo group: DAWG-HSMM
Date: 2013-12-16 22:06:14 UTC
From: Ian Stubbs
Topic: 2779 Message: 2785

I am game for any location, missed last month because of work.

On Mon, Dec 16, 2013 at 3:24 PM, <kip@...> wrote:

>
>
> What was the decision for tomorrow night?
>
>
> I saw one lets not do one this month, and one suggestion for Pool House
> and one suggestion for McKinney Brahms on Virginia which I could not find.
> I did find one
>
> <http://maps.google.com/maps?sugexp=ernk_timecombined&gs_rn=32&gs_ri=psy-ab&tok=tA6rZESl
wyToc6wzFkWBDA&pq=brahms+virginia+street,+mckinney+tx&cp=7&gs_id=4w&xhr=t&rlz=1C1KMZB_enUS
512US514&espv=210&es_sm=122&bav=on.2,or.r_cp.r_qf.&bvm=bv.57967247,d.aWc&biw=1920&bih=954&
bs=1&um=1&ie=UTF-8&q=braums+mckinney+tx&fb=1&hq=braums&hnear=0x864c125aa0745495:0xaa290ada
6420a624,McKinney,+TX&cid=5807332155066850386&sa=X&ei=9G6vUoDpI5LiyAH4oYCIBQ&sqi=2&ved=0CD
cQrwswAA>
> 1800 N Central Expy, McKinney, TX 75070, United States
> which is near University and 75 SE corner.
>
> .
>
> Three responses three different answers. Someone else be a deciding vote.
>
>
> Kip
>
>
>
>
>

2786. Re: [DAWG-HSMM] RE: Next Digital Tuesday, Dec 17th.

Yahoo group: DAWG-HSMM
Date: 2013-12-17 05:45:29 UTC
From: Rusty Haddock
Topic: 2779 Message: 2786

kip@... wrote:
>What was the decision for tomorrow night?
>
> I saw one lets not do one this month, and one suggestion for Pool
>House and one suggestion for McKinney Brahms on Virginia which I
>could not find. I did find one

Uh... Brahms in VA --> Van Alstyne. :)

>Three responses three different answers. Someone else be a deciding vote.

Given the lack of responses we'll blow off this month -- I guess most
everybody's too busy this time of year. We'll see what we can do for
January. I'd really like to have a "play date" soon where we can get
our phones and video and Raspberry Pi's and whatever and mesh out.

Hope y'all enjoy your holidays! See ya next year.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2787. Ethernet Passive PoE power injectors

Yahoo group: DAWG-HSMM
Date: 2013-12-20 06:02:50 UTC
From: Rusty Haddock
Topic: 2787 Message: 2787

Hey folks!

I know that many of you are not local to Dallas but does anyone know of a brick and mortar/big box (or little box) store in the area that carries the RJ45 passive power injectors? I know I can get them on eBay (http://tinyurl.com/o6lhs9f) but I'd like to get them sooner than next year. :) Suggestions for better units would be appreciated as well. Both sets of mine have broken one or more of their little, itty bitty, Chinese-made, 50-gauge wires (yes, I'm being facetious).

Thanks!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2788. Re: [DAWG-HSMM] Ethernet Passive PoE power injectors

Yahoo group: DAWG-HSMM
Date: 2013-12-20 06:21:53 UTC
From: Mark J Culross
Topic: 2787 Message: 2788

Rusty:

This isn't exactly the brick & mortar store that you were looking for, but I've previously ordered passive POE adapters through http://www.amazon.com/ & despite the low cost, they are very good quality units. Here's what I bought for use in our Lockheed Radio Club mesh nodes (WARNING: these DO NOT have the correct DC connector . . . we cut the provided DC connectors off & replaced them with Anderson Power Poles, so the size of the provided DC connector was moot for us !!):

http://www.amazon.com/AIR802-POEPASS-02-Injector-Splitter-Connector/dp/B003QRQ5DK/ref=pd_bxgy_pc_text_y

I believe that the following product uses the CORRECT DC connector, but you should definitely verify this for yourself:

http://www.amazon.com/AIR802-POEPASS-01-Injector-Splitter-Connector/dp/B003DLJNWE/ref=pd_bxgy_e_text_y

Good luck & have fun !!

Mark J Culross
KD5RXT

>_____
> From: Rusty Haddock <rusty@fe2o3.lonestar.org>
>To: DAWG-HSMM@yahoogroups.com
>Sent: Friday, December 20, 2013 12:02 AM
>Subject: [DAWG-HSMM] Ethernet Passive PoE power injectors
>
>
>
>Hey folks!
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```
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>|/\__V__/ Math illiteracy affects 7 out of 5 people!
>
>
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2789. Re: [DAWG-HSMM] Ethernet Passive PoE power injectors

Yahoo group: DAWG-HSMM
Date: 2013-12-20 06:35:19 UTC
From: Douglas Kilgore
Topic: 2787 Message: 2789

I have several sets new in wrapper. These are the China units. I
ordered several.

Doug KD5OUG

On 12/20/2013 12:02 AM, Rusty Haddock wrote:
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This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2790. Re: [DAWG-HSMM] Digest Number 973

Yahoo group: DAWG-HSMM
Date: 2013-12-20 11:53:13 UTC
From: kenthasi@gmail.com
Topic: 2790 Message: 2790

Dallas Area Working Group - HSMM
Have you tried tigerdirect at 121and glade road in Colleyville? Or possibly tanners electronics in Carrollton. Your up near Melissa if I remember correctly.
------ Original message------

From :
Date: Fri, 12/20/2013 5:24 AM
To: DAWG-HSMM@yahoogroups.com;
Subject:[DAWG-HSMM] Digest Number 973

(http://groups.yahoo.com/;_ylc=X3oDMTJlNGNzazY2BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTM4NzUzODY0Nw--) (http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJla3IxbGZtBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDaGRyBHNsawNocGgEc3RpbWUDMTM4NzUzODY0Nw--) Dallas Area Working Group - HSMM (http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJla3IxbGZtBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDaGRyBHNsawNocGgEc3RpbWUDMTM4NzUzODY0Nw--) Group (http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJla3IxbGZtBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDaGRyBHNsawNocGgEc3RpbWUDMTM4NzUzODY0Nw--)

3 New Messages

Digest #973

1 a

Ethernet Passive PoE power injectors by "Rusty Haddock" kd4wlz

1 b

Re : Ethernet Passive PoE power injectors by "Mark J Culross" kd5rxt_mark

1c

Re: Ethernet Passive PoE power injectors by "Douglas Kilgore" kd5oug

Messages

1a

Ethernet Passive PoE power injectors (http://groups.yahoo.com/group/DAWG-HSMM/message/2787;_ylc=X3oDMTJyZW84MG9oBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMyNzg3BHNlYwNkbXNnBHNsawN2bXNnBHN0aW1lAzEzODc1Mzg2NDc-)

Thu Dec 19, 2013 10:02 pm (PST) . Posted by:

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1b

Re: Ethernet Passive PoE power injectors
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"Mark J Culross" kd5rxt_mark

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I believe that the following product uses the CORRECT DC connector, but you should definitely verify this for yourself:

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Good luck & have fun !!

Mark J Culross
KD5RXT

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>To: DAWG-HSMM@yahoogroups.com
>Sent: Friday, December 20, 2013 12:02 AM
>Subject: [DAWG-HSMM] Ethernet Passive PoE power injectors
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>
(http://groups.yahoo.com/group/DAWG-HSMM/messages;_ylc=X3oDMTJnaGZzcTR2BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZG1zZwRzbGsDYXRwYwRzdGltZQMxMzg3NTM4NjQ3?xm=1&m=p&tidx=1)

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>
(http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJndjBrOTRvBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZG1zZwRzbGsDbnRwYwRzdGltZQMxMzg3NTM4NjQ3)

1 New Members
(http://groups.yahoo.com/group/DAWG-HSMM/members;_ylc=X3oDMTJndHE0MWQxBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDdnRsBHNsawN2bWJycwRzdGltZQMxMzg3NTM4NjQ3?o=6)
>
(http://groups.yahoo.com/group/DAWG-HSMM/members;_ylc=X3oDMTJndHE0MWQxBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDdnRsBHNsawN2bWJycwRzdGltZQMxMzg3NTM4NjQ3?o=6)

We are making changes based on your feedback, Thank you !

Submit Feedback

>

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>
(http://yahoogroups.tumblr.com/)

(http://groups.yahoo.com/;_ylc=X3oDMTJlNGNzazY2BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTM4NzUzODY0Nw--)

CHANGE SETTINGS
(http://groups.yahoo.com/group/DAWG-HSMM/join;_ylc=X3oDMTJnMnA1bzR1BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNzdG5ncwRzdGltZQMxMzg3NTM4NjQ3)
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>

2791. Re: [DAWG-HSMM] Digest Number 973

Yahoo group: DAWG-HSMM
Date: 2013-12-20 12:10:50 UTC
From: kenthasi@gmail.com
Topic: 2790 Message: 2791

Dallas Area Working Group - HSMM
Just checked online at tigerdirect, they have them.
------ Original message------

From :
Date: Fri, 12/20/2013 5:24 AM
To: DAWG-HSMM@yahoogroups.com;
Subject:[DAWG-HSMM] Digest Number 973

(http://groups.yahoo.com/;_ylc=X3oDMTJlNGNzazY2BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTM4NzUzODY0Nw--) (http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJla3IxbGZtBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDaGRyBHNsawNocGgEc3RpbWUDMTM4NzUzODY0Nw--) Dallas Area Working Group - HSMM (http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJla3IxbGZtBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDaGRyBHNsawNocGgEc3RpbWUDMTM4NzUzODY0Nw--) Group (http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJla3IxbGZtBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDaGRyBHNsawNocGgEc3RpbWUDMTM4NzUzODY0Nw--)

3 New Messages

Digest #973

1 a

Ethernet Passive PoE power injectors by "Rusty Haddock" kd4wlz

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Doug KD5OUG

On 12/20/2013 12:02 AM, Rusty Haddock wrote:
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> Thanks!
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> -Rusty-

This email is free from viruses and malware because avast! Antivirus protection is active.
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Reply to sender . Reply to group . Reply via Web Post (http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJyanVkZGpyBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMyNzg5BHNlYwNkbXNnBHNsawNycGx5BHN0aW1lAzEzODc1Mzg2NDc-?act=reply&messageNum=2789) . All Messages (3) (http://groups.yahoo.com/group/DAWG-HSMM/message/2787;_ylc=X3oDMTM2c3VxMmVhBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMyNzg5BHNlYwNkbXNnBHNsawN2dHBjBHN0aW1lAzEzODc1Mzg2NDcEdHBjSWQDMjc4Nw--) . Top ^

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>
(http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJmZnZnNjI1BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzEzODc1Mzg2NDc-)

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(http://groups.yahoo.com/group/DAWG-HSMM/messages;_ylc=X3oDMTJnaGZzcTR2BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZG1zZwRzbGsDYXRwYwRzdGltZQMxMzg3NTM4NjQ3?xm=1&m=p&tidx=1)

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(http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJndjBrOTRvBF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZG1zZwRzbGsDbnRwYwRzdGltZQMxMzg3NTM4NjQ3)

1 New Members
(http://groups.yahoo.com/group/DAWG-HSMM/members;_ylc=X3oDMTJndHE0MWQxBF9TAzk3MzU5NzE1BGdy

cElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDdnRsBHNsawN2bWJycwRzdGltZQMxMzg3NTM4NjQ3?o
=6)
>
(http://groups.yahoo.com/group/DAWG-HSMM/members;_ylc=X3oDMTJndHE0MWQxBF9TAzk3MzU5NzE1BGdy
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=6)

We are making changes based on your feedback, Thank you !

Submit Feedback

>

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>
(http://yahoogroups.tumblr.com/)

(http://groups.yahoo.com/;_ylc=X3oDMTJlNGNzazY2BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdycHN
wSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTM4NzUzODY0Nw--)

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(http://groups.yahoo.com/group/DAWG-HSMM/join;_ylc=X3oDMTJnMnA1bzR1BF9TAzk3MzU5NzE1BGdycEl
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(http://groups.yahoo.com/group/DAWG-HSMM/join;_ylc=X3oDMTJnMnA1bzR1BF9TAzk3MzU5NzE1BGdycEl
kAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNzdG5ncwRzdGltZQMxMzg3NTM4NjQ3)

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>

2792. Farmersville node site

Yahoo group: DAWG-HSMM
Date: 2013-12-20 12:21:44 UTC
From: <kenthasi@...>
Topic: 2792 Message: 2792

The owner of a tower that is three miles south of Farmersville, has granted permission to put a node up. The tower has a 900mhz repeater on it currently. He has granted full access to mount the equipment at any level. The tower is 186 feet tall. If you have a node available and want to explore using the site, let me know. I also have a site available at 70 feet in Howe.

2793. Re: [DAWG-HSMM] Farmersville node site

Yahoo group: DAWG-HSMM
Date: 2013-12-20 14:33:03 UTC
From: Jason, kc5hwb
Topic: 2792 Message: 2793

That new 900MHz repeater is supposed to cover into DFW quite well, but I haven't tested it myself. It'd be cool to have a node there also.

On Fri, Dec 20, 2013 at 6:21 AM, <kenthasi@...> wrote:

>
>
> The owner of a tower that is three miles south of Farmersville, has
> granted permission to put a node up. The tower has a 900mhz repeater on it
> currently. He has granted full access to mount the equipment at any level.
> The tower is 186 feet tall. If you have a node available and want to
> explore using the site, let me know. I also have a site available at 70
> feet in Howe.
>
>

--
Jason, kc5hwb
www.grapevinehamradio.com

2794. Re: [DAWG-HSMM] Digest Number 973

Yahoo group: DAWG-HSMM
Date: 2013-12-20 14:34:47 UTC
From: Jason, kc5hwb
Topic: 2790 Message: 2794

I live right behind that Tiger Direct in Euless. Let me know if I can go
up there and look at something for you.
kc5hwb

On Fri, Dec 20, 2013 at 6:10 AM, kenthasi@... <kenthasi@...>wrote:

>
>
> Just checked online at tigerdirect, they have them.
>
> ------ Original message------
>
> *From :*
>
> *Date: *Fri, 12/20/2013 5:24 AM
>
> *To: *DAWG-HSMM@yahoogroups.com;
>
> *Subject:*[DAWG-HSMM] Digest Number 973
>
>
> [image: Yahoo! Groups]
> <http://groups.yahoo.com/;_ylc=X3oDMTJlNGNzazY2BF9TAzk3MzU5NzE1BGdycElkAzEyMjY0MzIwBGdyc
HNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTM4NzUzODY0Nw-->
> <http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJla3IxbGZtBF9TAzk3MzU5NzE1BGdycElkAz
EyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDaGRyBHNsawNocGgEc3RpbWUDMTM4NzUzODY0Nw--> Dallas
> Area Working Group - HSMM
> <http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJla3IxbGZtBF9TAzk3MzU5NzE1BGdycElkAz
EyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDaGRyBHNsawNocGgEc3RpbWUDMTM4NzUzODY0Nw--> Group
> <http://groups.yahoo.com/group/DAWG-HSMM;_ylc=X3oDMTJla3IxbGZtBF9TAzk3MzU5NzE1BGdycElkAz
EyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDaGRyBHNsawNocGgEc3RpbWUDMTM4NzUzODY0Nw-->
>
>
> 3 New Messages
> Digest #973
>
>
>
> 1 a
> Ethernet Passive PoE power injectors <#1430fea5e0fe86a9_1a> by "Rusty
> Haddock" kd4wlz
>
> 1 b
> Re : Ethernet Passive PoE power injectors <#1430fea5e0fe86a9_1b> by
> "Mark J Culross" kd5rxt_mark

>
> 1c
> Re: Ethernet Passive PoE power injectors <#1430fea5e0fe86a9_1c> by
> "Douglas Kilgore" kd5oug
>
>
>
>
> Messages
> 1a Ethernet Passive PoE power injectors
> <http://groups.yahoo.com/group/DAWG-HSMM/message/2787;_ylc=X3oDMTJyZW84MG9oBF9TAzk3MzU5N
zE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMyNzg3BHNlYwNkbXNnBHNsawN2bXNnBHN
0aW1lAzEzODc1Mzg2NDc->
>
> Thu Dec 19, 2013 10:02 pm (PST) . Posted by: "Rusty Haddock" kd4wlz
> <rusty@...?subject=Re%3A%20Ethernet%20Passive%20PoE%20power%20injectors>
> Hey folks!
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> I know that many of you are not local to Dallas but does anyone
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> Both sets of mine have broken one or more of their little, itty bitty,
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> Thanks!
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>
> Reply to sender
<rusty@...?subject=Re%3A%20Ethernet%20Passive%20PoE%20power%20injectors>. Reply to group
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ycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMyNzg3BHNlYwNkbXNnBHNsawN2dHBjBHN0aW1lAzEzODc1Mzg2NDcEdHBjS
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> ^ <#1430fea5e0fe86a9_toc>
>
> 1b Re: Ethernet Passive PoE power injectors
> <http://groups.yahoo.com/group/DAWG-HSMM/message/2788;_ylc=X3oDMTJydmowMmlzBF9TAzk3MzU5N
zE1BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMyNzg4BHNlYwNkbXNnBHNsawN2bXNnBHN
0aW1lAzEzODc1Mzg2NDc->

>
> Thu Dec 19, 2013 10:21 pm (PST) . Posted by: "Mark J Culross"
> kd5rxt_mark
> <mjculross@...?subject=Re%3A%20Ethernet%20Passive%20PoE%20power%20injectors>
> Rusty:
>
> This isn't exactly the brick & mortar store that you were looking for, but
> I've previously ordered passive POE adapters through http://www.amazon.com/
> & despite the low cost, they are very good quality units. Here's what I
> bought for use in our Lockheed Radio Club mesh nodes (WARNING: these DO NOT
> have the correct DC connector . . . we cut the provided DC connectors off &
> replaced them with Anderson Power Poles, so the size of the provided DC
> connector was moot for us !!):
>
> http://www.amazon.com/AIR802-POEPASS-02-Injector-Splitter-Connector/
> dp/B003QRQ5DK/ref=pd_bxgy_pc_text_y
>
> I believe that the following product uses the CORRECT DC connector, but
> you should definitely verify this for yourself:
>
> http://www.amazon.com/AIR802-POEPASS-01-Injector-Splitter-Connector/
> dp/B003DLJNWE/ref=pd_bxgy_e_text_y
>
> Good luck & have fun !!
>
> Mark J Culross
> KD5RXT
>
> >_____
> > From: Rusty Haddock <rusty@...>
> >To: DAWG-HSMM@yahoogroups.com
> >Sent: Friday, December 20, 2013 12:02 AM
> >Subject: [DAWG-HSMM] Ethernet Passive PoE power injectors
> >
> >
> >
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Reply via Web Post <http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJyamh2aGo3BF9T
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.yahoo.com/group/DAWG-HSMM/message/2787;_ylc=X3oDMTM2c3FsajloBF9TAzk3MzU5NzE1BGdycElkAzEyM
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2NDcEdHBjSWQDMjc4Nw-->. Top
> ^ <#1430fea5e0fe86a9_toc>
>
> 1c Re: Ethernet Passive PoE power injectors
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> Thu Dec 19, 2013 10:35 pm (PST) . Posted by: "Douglas Kilgore" kd5oug
> <kilgore1317@...?subject=Re%3A%20Ethernet%20Passive%20PoE%20power%20injectors>
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>
> ---
> This email is free from viruses and malware because avast! Antivirus
> protection is active.
> http://www.avast.com
>

> Reply to sender
<kilgore1317@sbcglobal.net?subject=Re%3A%20Ethernet%20Passive%20PoE%20power%20injectors>.
Reply to group
<DAWG-HSMM@yahoogroups.com?subject=Re%3A%20Ethernet%20Passive%20PoE%20power%20injectors>.
Reply via Web Post <http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJyanVkZGpyBF9T
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> Visit Your Group
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>
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> <http://groups.yahoo.com/group/DAWG-HSMM/post;_ylc=X3oDMTJndjBrOTRvBF9TAzk3MzU5NzE1BGdyc
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> 1 New Members
> <http://groups.yahoo.com/group/DAWG-HSMM/members;_ylc=X3oDMTJndHE0MWQxBF9TAzk3MzU5NzE1BG
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?o=6>
>
>
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> CHANGE SETTINGS
> <http://groups.yahoo.com/group/DAWG-HSMM/join;_ylc=X3oDMTJnMnA1bzR1BF9TAzk3MzU5NzE1BGdyc
ElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNzdG5ncwRzdGltZQMxMzg3NTM4NjQ3>
> >
> <http://groups.yahoo.com/group/DAWG-HSMM/join;_ylc=X3oDMTJnMnA1bzR1BF9TAzk3MzU5NzE1BGdyc
ElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNzdG5ncwRzdGltZQMxMzg3NTM4NjQ3>
> TERMS OF USE
> <http://info.yahoo.com/legal/us/yahoo/utos/terms/>
> >
> <http://info.yahoo.com/legal/us/yahoo/utos/terms/>
> UNSUBSCRIBE
> <DAWG-HSMM-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> >
> <DAWG-HSMM-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
>
>

--
Jason, kc5hwb
www.grapevinehamradio.com

2795. RE: Ethernet Passive PoE power injectors

Yahoo group: DAWG-HSMM
Date: 2013-12-20 15:12:05 UTC
From: <kenthasi@...>
Topic: 2787 Message: 2795

Tigerdirect over in Grapevine /Colleyville has them. If they don't have what you want, you can have the store get it sent to them with no freight. Tanners Electronics in Carrollton may have them.

2796. Re: [DAWG-HSMM] Farmersville node site

Yahoo group: DAWG-HSMM
Date: 2013-12-20 15:15:24 UTC
From: <kenthasi@...>
Topic: 2792 Message: 2796

I found out this morning that a node site is available at the 175' level of a tower non Pottsboro.

2797. CAUTION when buying eBay routers

Yahoo group: DAWG-HSMM
Date: 2013-12-22 15:43:59 UTC
From: <kenthasi@...>
Topic: 2797 Message: 2797

I purchased two routers off of eBay from a seller under the username katebf12. The firmware the units have been flashed with is corrupt, and even using the tftp method, I have not been able to revive them. On top of that, it took several weeks to get the routers because she said her son, who flashes the routers, has been out of town. At first I couldn't even get a response from the seller. Only after an eBay complaint to they respond. I have not had time to mess with these two nodes, and left them sitting in the box until I was off for vacation. Also, one wall wart was dead. DO NOT USE THIS VENDOR!

2798. Re: CAUTION when buying eBay routers

Yahoo group: DAWG-HSMM
Date: 2013-12-22 22:50:16 UTC
From: James Comer Jr
Topic: 2797 Message: 2798

I see no negative feedback for them in the last 12 months. Were you planning on leaving any?

James KB5FVS

2799. RE: CAUTION when buying eBay routers

Yahoo group: DAWG-HSMM
Date: 2013-12-23 12:35:15 UTC
From: <kenthasi@...>
Topic: 2797 Message: 2799

I had posted negative when I had trouble getting the routers in the first place. The lady wrote back, was very apologetic and said she would send them immediately. Two weeks after they were supposed to be sent. I told her that I would revise my feedback because it did sound like an oversight. I haven't had time to mess with these nodes for the until this week, which is when I found the problem. I contacted the vendor yesterday, and she said she not going to sell any more of the nodes, and is closing the username. Sounded a little over the top for a response. I bet they pop up under a different name. I noticed this was a fairly new store. Probably why.

2800. Quickie tftp server on a mesh node

Yahoo group: DAWG-HSMM
Date: 2014-01-02 09:40:37 UTC
From: Rusty Haddock
Topic: 2800 Message: 2800

Maybe I discovered this a few years ago but I don't remember doing it. I know I've talked about a couple of the TFTP servers we have on BBHN software repository but I just don't remember mentioning this one.

[WARNING: If you're not comfortable with the Linux command line, or shell, then you might wanna just skip this message. :-)]

So let's say you need a quickie TFTP server on one of your mesh nodes to serve up some configuration/firmware files for your SIP/VoIP phones, or forms for your 'troups' to download, for instance. These sorta files don't change much so they're pretty much read-only. Well, there's no need to be going to the firmware download webpage and trying to figure out which tftp server you want to try when there's one built into the node. That program is called 'dnsmasq' and actually does a number of things on your node such as act as a DNS and DHCP server for your LAN so it's already multi-talented.

Get to the command line or shell of your mesh node and edit the file /etc/dnsmasq.conf. Go to the bottom of the file, add these lines:

```
enable-tftp
tftp-root=/tmp
```

save and exit your editor. This enables 'dnsmasq' to act as a read-only TFTP server. If you have a similar server program already running then you'll need to stop it before starting this one.

Now just restart the 'dnsmasq' program with

```
/etc/init.d/dnsmasq restart
```

You might not want to use /tmp since a power cycle, intended or not, will cause the contents of /tmp to disappear like the dodo.

How you get your files to the 'tftp-root' directory on your node I'll leave as an exercise for the reader. :->

One thing I have noticed is that the server is a little funny about the 'mode' of the files being downloaded. If you use 'binary' or 'image' mode you should be fine when transferring files with a client. Using 'text' or 'ascii' mode gave me errors messages when I tried to download a file. Cooperation with VoIP phones and other equipment try to download files may vary -- I haven't tried them yet. Test before putting into "production".

I just found this late at night so how it works for you could be, well... "not so good" but it worked fine for me! :)

Try it out and report back! It's late... Bye!

-Rusty-

P.S. If you no longer want this TFTP server then just remove ONLY the two lines from /etc/dnsmasq.conf you added and restart the 'dnsmasq' program as you did above.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2801. Re: [DAWG-HSMM] Quickie tftp server on a mesh node

Yahoo group: DAWG-HSMM
Date: 2014-01-04 07:09:25 UTC
From: Lawrence Landis
Topic: 2800 Message: 2801

On Thu, Jan 2, 2014 at 2:40 AM, Rusty Haddock <rusty@...>wrote:

>
> One thing I have noticed is that the server is a little funny about the
> 'mode' of the files being downloaded. If you use 'binary' or 'image' mode
> you should be fine when transferring files with a client. Using 'text'
> or 'ascii' mode gave me errors messages when I tried to download a file.
> Cooperation with VoIP phones and other equipment try to download files may
> vary -- I haven't tried them yet. Test before putting into "production".
>
> Dear Rusty,

For "execiutables", you do NOT want ASCII mode as that mode does not
pass "binary" data, which executables contain. Only use ASCII mode for
"text" files... ASCII mode intends to ensure that the "new line" conventions
of the requester are honored.
UNIX - 0x0a NL (newline)
DOS - 0x0d0a CR LF (carriage return linefeed)
Mac - 0x0d CR (carriage return)

Note that LF and NL are the same character encoding (0x0a) where LF
means vertical slew (line feed) which is NOT a line terminator, where NL
means NewLine, which is the UNIX line terminator... why have two characters
when one will do.

Mac... Well... Same one instead of two... but...
"Think Different." (their motto - translation: "be odd").

Using "text" or ASCII mode, the source file is mangled for the end of line
conventions so that when it gets to the requestor's machine, the end-of-line
convention matches that of the requestor. Clearly if your executable has
0x0a or 0x0d embedded.. (e.g. machine instructions)... "funny" things will
be occurring.

Hope that helps explain the "mystery".

73
Cheers,
--ldl n0yrq

> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>
>

--

NOTE: If it is important CALL ME - I may miss email,
which I do NOT normally check on weekends nor on
a regular basis during any other day.

LD Landis - N0YRQ-1 - de la tierra del encanto
3960 Schooner Loop, Las Cruces, NM 88012
o:651-340-4007 / 575-636-2229 c:575-312-3995
N32 21'48.28" W106 46'5.80" DM62OI77UD

2802. Re: [DAWG-HSMM] Quickie tftp server on a mesh node

Yahoo group: DAWG-HSMM
Date: 2014-01-05 19:11:19 UTC
From: Rusty Haddock
Topic: 2800 Message: 2802

Lawrence Landis wrote:
>On Thu, Jan 2, 2014 at 2:40 AM, Rusty Haddock <rusty@...>wrote:
>
>> One thing I have noticed is that the server is a little funny about the
>> 'mode' of the files being downloaded. If you use 'binary' or 'image' mode
>> you should be fine when transferring files with a client. Using 'text'
>> or 'ascii' mode gave me errors messages when I tried to download a file.
>> Cooperation with VoIP phones and other equipment try to download files may
>> vary -- I haven't tried them yet. Test before putting into "production".
>>
>> Dear Rusty,
>
>...
>Hope that helps explain the "mystery".

Nope. Nice effort but it sure doesn't help at all. I'm well aware of
the differences between transferring 'text' and 'binary' files. I've had
to explain the concept more than just a few times over my numerous years.

As I wrote in my earlier message, using 'ascii' mode gave me an error
message when I tried to download a file. Getting the wrong mode when
transferring files should **NEVER** give you an error message --
just possibly bad data on the receiving end with a mode mismatch.

The error messages seem to be a problem in the server. Maybe it's
inconsequential since most files coming off a TFTP (not FTP) server are
for booting and configuration data so they're gonna be binaries and not
needing translation. Still, I was wondering if others who have tried
using DNSmasq for a TFTP server had seen the same silliness.

Thanks for partipating anyhow! :)

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2803. IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-01-06 01:38:11 UTC
From: Kipton Moravec
Topic: 2803 Message: 2803

Does anyone know of IP camera that you would recommend for launching on a balloon. We want to try to stream from the balloon to the ground using a mesh node.

Kip

2804. Re: [DAWG-HSMM] IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-01-06 04:34:03 UTC
From: Mark J Culross
Topic: 2803 Message: 2804

Kip:

Back in the HSMM days, I used a Foscam FI8918W IP camera very successfully on the mesh network (we did not use the wireless capability of the camera . . . we used it CAT5 connected) . . . we even tried to fly it on one of our NTBP launches, but we quickly lost the mesh link (not enough antenna !!). That's been quite a while back & I haven't had time to try it yet on the BBHN 1.0 setup. This particular camera is a little on the expensive side, but it works well.

There's a PDF in the files section titled "Adding the FOSCAM FI8918W to your mesh network - 20111111.pdf" which fully describes the previous method that I used to set it all up . . . hope that helps !!

Mark J Culross
KD5RXT

>_____
> From: Kipton Moravec <kip@...>
>To: DAWG-HSMM@yahoogroups.com
>Sent: Sunday, January 5, 2014 7:38 PM
>Subject: [DAWG-HSMM] IP Camera
>
>
>
>Does anyone know of IP camera that you would recommend for launching on
>a balloon. We want to try to stream from the balloon to the ground using
>a mesh node.
>
>Kip
>
>
>

2805. Re: [DAWG-HSMM] IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-01-06 07:30:53 UTC
From: Douglas Kilgore
Topic: 2803 Message: 2805

I have a dLink DCS-900 that you can use. It's old and requires 5
volts. Not much of a camera.

http://support.dlink.com/ProductInfo.aspx?m=DCS-900

It hasn't been used for years. If you are interested, I'll check it out.

Doug Kilgore KD5OUG

On 1/5/2014 7:38 PM, Kipton Moravec wrote:
> Does anyone know of IP camera that you would recommend for launching on
> a balloon. We want to try to stream from the balloon to the ground using
> a mesh node.
>
> Kip
>
>
>

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2806. IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-01-06 14:37:03 UTC
From: Fred Kleber
Topic: 2803 Message: 2806

I am using a Tenvia IP301W IP camera with an earlier version node (0.4.3 I believe) and it works just fine.

73,
Fred, NP2X

2807. Re: [DAWG-HSMM] IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-01-07 01:38:25 UTC
From: <w5adc@...>
Topic: 2803 Message: 2807

Doug,

We are interested it the camera. We are looking at a flight on Feb 1 to just try and see if we can establish and maintain a connection with balloon. We would be looking at a short flight to about 50k ft and then a recovery. If anyone is interested in participating in the launch, tracking and recovery, all are welcome.

Thanks,

Tony
W5ADC

2808. HSMM-MESH high altitude balloon experiment.

Yahoo group: DAWG-HSMM
Date: 2014-01-07 01:42:51 UTC
From: Kipton Moravec
Topic: 2808 Message: 2808

The proposal on the table at this time is to launch PHAB-6 on Feb 1 with an HSMM payload. This would be a short flight to see if we can maintain a 2.4 GHz link during the flight. We would likely fly a webcam on this flight and attempt to get live video.

Is anyone in this group interested in bringing your MESH node and help track the balloon and receive the video signal? This is a mobile operation, and the balloon will have an APRS tracker on it also so we can track it and find it when it lands.

The flight will probably be <40 miles depending on the wind. We will intentionally try to make it go up quickly so it will not travel as far for this test.

Kip

2809. Re: [DAWG-HSMM] IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-01-07 02:11:12 UTC
From: Douglas Kilgore
Topic: 2803 Message: 2809

What type of ground station do you envision?

If we have a APRS transmitting position and altitude, that should be enough to calculate azimuth and elevation of a directional antenna. Is there a program that will calculate that?

And of course we should have additional stations down range.

If this is an IP camera, what do you use to capture video for viewing after the event?

Doug

On 1/6/2014 7:38 PM, w5adc@... wrote:
> Doug,

> We are interested it the camera. We are looking at a flight on Feb 1
> to just try and see if we can establish and maintain a connection with
> balloon. We would be looking at a short flight to about 50k ft and
> then a recovery. If anyone is interested in participating in the
> launch, tracking and recovery, all are welcome.
>
> Thanks,Tony
>
> W5ADC
>
>

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2810. Re: [DAWG-HSMM] IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-01-07 02:18:24 UTC
From: Mark J Culross
Topic: 2803 Message: 2810

Doug (KD5OUG):

To view the streaming video, you could use a free package called VLC . . . among many other capabilities, it allows you to view & record at the same time. See the PDF document in the files section titled "Adding the FOSCAM FI8918W to your mesh network - 20111111.pdf" which fully describes the previous method that I used to set up my IP camera on the mesh . . . hope that helps !!

Mark J Culross
KD5RXT

>_____
> From: Douglas Kilgore <kilgore1317@...>
>To: DAWG-HSMM@yahoogroups.com
>Sent: Monday, January 6, 2014 8:11 PM
>Subject: Re: [DAWG-HSMM] IP Camera
>
>
>
>What type of ground station do you envision? If we have a APRS transmitting position and altitude, that should be enough to calculate azimuth and elevation of a directional antenna. Is there a program that will calculate that? And of course we should have additional stations down range. If this is an IP camera, what do you use to capture video for viewing after the event? Doug On 1/6/2014 7:38 PM, w5adc@... wrote:
>Doug,
>We are interested it the camera. We are looking at a flight on Feb 1 to just try and see if we can establish and maintain a connection with balloon. We would be looking at a short flight to about 50k ft and then a recovery. If anyone is interested in participating in the launch, tracking and recovery, all are welcome.
>>Thanks,Tony
>>W5ADC
>>
>
>_____
>
> This email is free from viruses and malware because avast! Antivirus protection is active.
>

2811. Bidirectional Amplifiers

Yahoo group: DAWG-HSMM
Date: 2014-01-07 13:03:34 UTC
From: <kenthasi@...>
Topic: 2811 Message: 2811

I am hoping to hear from a few people who have experience with BDA's on mesh nodes. I have some 2 watt, and an 8 watt model to deploy. But I would like to hear other people's experiences first.

2812. Re: [DAWG-HSMM] Bidirectional Amplifiers

Yahoo group: DAWG-HSMM
Date: 2014-01-07 17:47:04 UTC
From: J. Gordon Beattie, W2TTT
Topic: 2811 Message: 2812

Kent,
I have several nodes that use them and they make a measurable difference in SNR. When using them, I have found it ok to leave one port off or on. I turn them off when local traffic to the node is not expected or desired and I am using a BDA and a directional antenna on one port.
I also seem to find them with 6VDC power requirements. I have taken a 4.2 A USB supply and fed its 5VDC into it just fine. Our goal is to have every node portable, permanent or home be 12VDC with some battery backup.
73,
Gordon Beattie, W2TTT
201.314.6964

Sent from my iPad

On Jan 7, 2014, at 8:03 AM, <kenthasi@...> wrote:

> I am hoping to hear from a few people who have experience with BDA's on mesh nodes. I have some 2 watt, and an 8 watt model to deploy. But I would like to hear other people's experiences first.
>
>

2813. Re: [DAWG-HSMM] IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-01-07 19:13:36 UTC
From: <w5adc@...>
Topic: 2803 Message: 2813

The flight will be equipped with an APRS beacon to provide location and altitude. We were thinking that we might try and have one fixed ground station near the launch site, one near the projected landing site and a few mobile stations. We will plan on this flight being a short distance. If this works, we might try a higher altitude flight later in the year.

Thanks,

Tony
W5ADC

2814. Re: [DAWG-HSMM] Bidirectional Amplifiers

Yahoo group: DAWG-HSMM
Date: 2014-01-07 19:15:03 UTC
From: denniskarol@...
Topic: 2811 Message: 2814

VERY inexpensive Buck Converters at various Output Currents can be found on ebay from China. I use them at work for a bunch of projects and they do take a beating.
----- Original Message -----
From: "J. Gordon Beattie, W2TTT" <w2ttt@...>
To: DAWG-HSMM@yahoogroups.com
Cc: "<DAWG-HSMM@yahoogroups.com>" <DAWG-HSMM@yahoogroups.com>, "Gordon Beattie" <w2ttt@...>
Sent: Tuesday, January 7, 2014 12:47:04 PM
Subject: Re: [DAWG-HSMM] Bidirectional Amplifiers

Kent,
I have several nodes that use them and they make a measurable difference in SNR. When using them, I have found it ok to leave one port off or on. I turn them off when local traffic to the node is not expected or desired and I am using a BDA and a directional antenna on one port.
I also seem to find them with 6VDC power requirements. I have taken a 4.2 A USB supply and fed its 5VDC into it just fine. Our goal is to have every node portable, permanent or home be 12VDC with some battery backup.
73,
Gordon Beattie, W2TTT
201.314.6964

Sent from my iPad

On Jan 7, 2014, at 8:03 AM, < kenthasi@... > wrote:

I am hoping to hear from a few people who have experience with BDA's on mesh nodes. I have some 2 watt, and an 8 watt model to deploy. But I would like to hear other people's experiences first.

2815. Re: [DAWG-HSMM] IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-01-07 19:53:00 UTC
From: James Hall
Topic: 2803 Message: 2815

Why not use a Raspberry Pi with the Pi Camera? The camera itself won't add too much weight to your payload and you could use the pi for other things too probably. Not to mention it would be possible to have it save copies of the pictures locally on its sd card along with sending via wifi. The whole thing would probably cost you about what a typical IP camera would too.
http://www.alliedelec.com/lp/130513rasocameramodule/
They used to have a bundle of both for $40 or so but that must have been a limited time thing last year.

On Tue, Jan 7, 2014 at 2:13 PM, <w5adc@...> wrote:

>
>
> The flight will be equipped with an APRS beacon to provide location and
> altitude. We were thinking that we might try and have one fixed ground
> station near the launch site, one near the projected landing site and a few
> mobile stations. We will plan on this flight being a short distance. If
> this works, we might try a higher altitude flight later in the year.
>
>
> Thanks,
>
>
> Tony
>
> W5ADC
>
>
>

2816. Re: [DAWG-HSMM] IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-01-07 21:44:57 UTC
From: <w5adc@...>
Topic: 2803 Message: 2816

You have a point, we were just looking for something really quick, easy and free that we could borrow for a quick test. The Raspberry Pi and camera would be a really good longer term solution.

Thanks,

Tony
W5ADC

2817. RE: [DAWG-HSMM] IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-01-07 21:55:18 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2803 Message: 2817

Tony,

My only question would be whether the Pi camera will operate at 50K ft in a harsh temperature environment? I think it is a GREAT IDEA to capture the video on an SD card for later review. You might want to "dry run" the camera platform on a tethered balloon to about 200 ft or so. This will give you an idea whether it is mechanically stable and a start on the WiFi coverage. I'm not certain what the FAA rules are for a tethered balloon, but if you could go 500 or more feet, that would be a great test.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of w5adc@...
Sent: Tuesday, January 07, 2014 9:45 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] IP Camera

You have a point, we were just looking for something really quick, easy and free that we could borrow for a quick test. The Raspberry Pi and camera would be a really good longer term solution.

Thanks,

Tony

W5ADC

2818. Re: [DAWG-HSMM] IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-01-07 23:22:51 UTC
From: Rusty Haddock
Topic: 2803 Message: 2818

J.Gordon Beattie, Jr., W2TTT wrote:
>Tony,
>
>My only question would be whether the Pi camera will operate at 50K ft in a
>harsh temperature environment? I think it is a GREAT IDEA to capture the

Check the main Raspberry Pi website/blob. I believe that they've launched
several balloons from [jolly old] England into mainland Europe using
a RPi and the associated camera. Still, dunno why it wouldn't work
since it's completely "solid state" -- no video tubes to worry about.
Just keep it reasonably warm, like any other semiconductor-base equipment
and batteries, and it should operate just peachy.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2819. Re: [DAWG-HSMM] IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-01-08 01:33:12 UTC
From: <w5adc@...>
Topic: 2803 Message: 2819

I am not too worried about temperature control. We always put the electronics in insulated boxes and due to the heat generated by the electronics, the temperatures very seldom drop below normal industrial temperature ranges for electronics.

Tony
W5ADC

2820. Re: [DAWG-HSMM] IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-01-08 02:45:12 UTC
From: Rusty Haddock
Topic: 2803 Message: 2820

w5adc@... wrote:

>I am not too worried about temperature control. We always put

Gordan was... To whom I was answering. :)

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2821. Re: [DAWG-HSMM] IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-01-08 06:35:30 UTC
From: J. Gordon Beattie, Jr., W2TTT
Topic: 2803 Message: 2821

Rusty,
Sounds great to me. Check to see what the Brits did with their successful launches and you'll be fine!
73,
Gordon Beattie, W2TTT
201.314.6964

Sent from my MOTOROLA ATRIX™ HD on AT&T

Rusty Haddock <rusty@fe2o3.lonestar.org> wrote:

>
>
>J.Gordon Beattie, Jr., W2TTT wrote:
>>Tony,
>>
>>My only question would be whether the Pi camera will operate at 50K ft in a
>>harsh temperature environment? I think it is a GREAT IDEA to capture the
>
>Check the main Raspberry Pi website/blob. I believe that they've launched
>several balloons from [jolly old] England into mainland Europe using
>a RPi and the associated camera. Still, dunno why it wouldn't work
>since it's completely "solid state" -- no video tubes to worry about.
>Just keep it reasonably warm, like any other semiconductor-base equipment
>and batteries, and it should operate just peachy.
>
> -Rusty-
>--
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>
>
><!-- #ygrp-mkp { border: 1px solid #d8d8d8; font-family: Arial; margin: 10px 0; padding: 0 10px; } #ygrp-mkp hr { border: 1px solid #d8d8d8; } #ygrp-mkp #hd { color: #628c2a; font-size: 85%; font-weight: 700; line-height: 122%; margin: 10px 0; } #ygrp-mkp #ads { margin-bottom: 10px; } #ygrp-mkp .ad { padding: 0 0; } #ygrp-mkp .ad p { margin: 0; } #ygrp-mkp .ad a { color: #0000ff; text-decoration: none; } #ygrp-sponsor #ygrp-lc { font-family: Arial; } #ygrp-sponsor #ygrp-lc #hd { margin: 10px 0px; font-weight: 700; font-size: 78%; line-height: 122%; } #ygrp-sponsor #ygrp-lc .ad { margin-bottom: 10px; padding: 0 0; } #actions { font-family: Verdana; font-size: 11px; padding: 10px 0; } #activity { background-color: #e0ecee; float: left; font-family: Verdana; font-size: 10px; padding: 10px; } #activity span { font-weight: 700; } #activity span:first-child { text-transform: uppercase; } #activity span a { color: #5085b6; text-decoration: none; }

#activity span span { color: #ff7900; } #activity span .underline { text-decoration: underline; } .attach { clear: both; display: table; font-family: Arial; font-size: 12px; padding: 10px 0; width: 400px; } .attach div a { text-decoration: none; } .attach img { border: none; padding-right: 5px; } .attach label { display: block; margin-bottom: 5px; } .attach label a { text-decoration: none; } blockquote { margin: 0 0 0 4px; } .bold { font-family: Arial; font-size: 13px; font-weight: 700; } .bold a { text-decoration: none; } dd.last p a { font-family: Verdana; font-weight: 700; } dd.last p span { margin-right: 10px; font-family: Verdana; font-weight: 700; } dd.last p span.yshortcuts { margin-right: 0; } div.attach-table div div a { text-decoration: none; } div.attach-table { width: 400px; } div.file-title a, div.file-title a:active, div.file-title a:hover, div.file-title a:visited { text-decoration: none; } div.photo-title a, div.photo-title a:active, div.photo-title a:hover, div.photo-title a:visited { text-decoration: none; } div#ygrp-mlmsg #ygrp-msg p a span.yshortcuts { font-family: Verdana; font-size: 10px; font-weight: normal; } .green { color: #628c2a; } .MsoNormal { margin: 0 0 0 0; } o { font-size: 0; } #photos div { float: left; width: 72px; } #photos div div { border: 1px solid #666666; height: 62px; overflow: hidden; width: 62px; } #photos div label { color: #666666; font-size: 10px; overflow: hidden; text-align: center; white-space: nowrap; width: 64px; } #reco-category { font-size: 77%; } #reco-desc { font-size: 77%; } .replbq { margin: 4px; } #ygrp-actbar div a:first-child { /* border-right: 0px solid #000;*/ margin-right: 2px; padding-right: 5px; } #ygrp-mlmsg { font-size: 13px; font-family: Arial, helvetica,clean, sans-serif; *font-size: small; *font: x-small; } #ygrp-mlmsg table { font-size: inherit; font: 100%; } #ygrp-mlmsg select, input, textarea { font: 99% Arial, Helvetica, clean, sans-serif; } #ygrp-mlmsg pre, code { font:115% monospace; *font-size:100%; } #ygrp-mlmsg * { line-height: 1.22em; } #ygrp-mlmsg #logo { padding-bottom: 10px; } #ygrp-msg p a { font-family: Verdana; } #ygrp-msg p#attach-count span { color: #1E66AE; font-weight: 700; } #ygrp-reco #reco-head { color: #ff7900; font-weight: 700; } #ygrp-reco { margin-bottom: 20px; padding: 0px; } #ygrp-sponsor #ov li a { font-size: 130%; text-decoration: none; } #ygrp-sponsor #ov li { font-size: 77%; list-style-type: square; padding: 6px 0; } #ygrp-sponsor #ov ul { margin: 0; padding: 0 0 0 8px; } #ygrp-text { font-family: Georgia; } #ygrp-text p { margin: 0 0 1em 0; } #ygrp-text tt { font-size: 120%; } #ygrp-vital ul li:last-child { border-right: none !important; } -->

2822. Re: Bidirectional Amplifiers

Yahoo group: DAWG-HSMM
Date: 2014-01-08 11:56:38 UTC
From: Kent Weeks
Topic: 2811 Message: 2822

Buck converters are the direction I went also. I already have them here to install. I originally posed this question to hopefully save me some trouble later. Call me lazy, but I hate climbing up and down towers just to do experiments. Thank you much for the feedback.

2823. IP Camera Monitoring

Yahoo group: DAWG-HSMM
Date: 2014-01-09 03:20:58 UTC
From: Fred Kleber
Topic: 2823 Message: 2823

I use a program called Vitamin D Video to monitor my IP camera which I have set up to see when feral cats come to eat the food we put out. It's free for a single camera and works quite well.

Hope this helps!

73,
Fred, NP2X

2824. Raspberry Pi

Yahoo group: DAWG-HSMM
Date: 2014-01-09 15:58:08 UTC
From: w0uo
Topic: 2631 Message: 2824

DAWG

Is anyone using software to configure a Raspberry Pi as a mesh node? If so, is there a current version, i.e. broadband hamnet v1.1?

Jim Spaulding W0UO

2825. RE: [DAWG-HSMM] Raspberry Pi

Yahoo group: DAWG-HSMM
Date: 2014-01-09 16:20:42 UTC
From: Jim
Topic: 2631 Message: 2825
Attachments: 1 described; binary payloads are missing from this source WARC

Jim,

From the Broadband-Hamnet web site (www.broadband-hamnet.org), it looks like v1.1 might be the latest version. See the attachment.

Jim

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of w0uo
Sent: Thursday, January 09, 2014 9:58 AM
To: DAWG-HSMM@yahoogroups.com
Subject: [DAWG-HSMM] Raspberry Pi

DAWG

Is anyone using software to configure a Raspberry Pi as a mesh node? If so, is there a current version, i.e. broadband hamnet v1.1?

Jim Spaulding W0UO

2826. Re: [DAWG-HSMM] Raspberry Pi

Yahoo group: DAWG-HSMM
Date: 2014-01-09 18:16:23 UTC
From: Bill Vodall
Topic: 2631 Message: 2826

>
> Is anyone using software to configure a Raspberry Pi as a mesh node? If so, is there a current version, i.e. broadband hamnet v1.1?
>

Somebody is doing it - http://hsmmpi.wordpress.com/

Not about about the v1.1..

I have a hunch that this will kill throughput - far better to keep the mesh nodes up in the clean and access them with specialized equipment on managed links - preferably on a different (5 GHz, 3 GHz) band.

73
Bill, WA7NWP

2827. RE: [DAWG-HSMM] Raspberry Pi

Yahoo group: DAWG-HSMM
Date: 2014-01-09 20:54:32 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2631 Message: 2827

Jim,

I am using it on and off, but it is based on the older code. It does work once you change the SSID to match what is used in the V1.0 Linksys code. Sometime this weekend we will also check it out with the Ubiquity code.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of w0uo
Sent: Thursday, January 09, 2014 3:58 PM
To: DAWG-HSMM@yahoogroups.com
Subject: [DAWG-HSMM] Raspberry Pi

DAWG

Is anyone using software to configure a Raspberry Pi as a mesh node? If so, is there a current version, i.e. broadband hamnet v1.1?

Jim Spaulding W0UO

2828. Cowtown Hamfest

Yahoo group: DAWG-HSMM
Date: 2014-01-17 09:00:14 UTC
From: Rusty Haddock
Topic: 2434 Message: 2828

FWIW, FYI, IYGARA.... Cowtown Hamfest in Ft Worth (http://cowtownhamfest.com) is this Friday and Saturday. Kip and I are scheduled for Mesh talks at 9am and 10am on Saturday, respectively. Oy vey! Nonetheless, if you can make it we'd appreciate y'all's support!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2829. Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-01-17 09:34:47 UTC
From: Rusty Haddock
Topic: 2037 Message: 2829

Anyone interested? I'm thinking somewhere in McKinney this month, maybe Scott P's again although I'm open to most any place that's reasonably quiet.

There's an interesting program out there for the Raspberry Pi called 'PiFM' which will broadcast an FM signal on a carrier from 1-250 MHz. It's intended as a very low-power xmitter for the FM Broadcast band with no extra equipment other than a wire tied to one of the GPIO pins. Have it speak a callsign from time to time and it may work on the 10m, 6m, 2m, and 220-MHz bands. During my initial play, er... tinkering the audio played fairly well. Range is kind of limited but a longer wire may help. I can bring my RPi if anyone is interested.

If anyone has some mesh problems then we can hash them out.

Your thoughts???

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2830. RE: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-01-17 12:57:54 UTC
From: kc5hwb
Topic: 2037 Message: 2830

Rusty
I'm interested. Some of us at the Hurst club are setting up a mesh network around this area in Mid Cities, grapevine, colleyville, HEB areas.
I'm interested in learning more about the mesh as a whole, I've not tried anything with the RPi but I know some others who have.
What're you wanting broadcast on those bands from the RPi?
You can contact me offline if you wish kc5hwb@grapevinehamradio.com

Jason

Jason, kc5hwb
www.grapevinehamradio.com
Sent via the Samsung Galaxy S™ III

-------- Original message --------
From: Rusty Haddock <rusty@fe2o3.lonestar.org>
Date: 01/17/2014 3:34 AM (GMT-06:00)
To: DAWG-HSMM@yahoogroups.com
Subject: [DAWG-HSMM] Digital Tuesday

Anyone interested? I'm thinking somewhere in McKinney this month, maybe
Scott P's again although I'm open to most any place that's reasonably
quiet.

There's an interesting program out there for the Raspberry Pi called
'PiFM' which will broadcast an FM signal on a carrier from 1-250 MHz.
It's intended as a very low-power xmitter for the FM Broadcast band
with no extra equipment other than a wire tied to one of the GPIO pins.
Have it speak a callsign from time to time and it may work on the 10m,
6m, 2m, and 220-MHz bands. During my initial play, er... tinkering the
audio played fairly well. Range is kind of limited but a longer wire
may help. I can bring my RPi if anyone is interested.

If anyone has some mesh problems then we can hash them out.

Your thoughts???

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2831. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-01-17 18:53:05 UTC
From: Jimmy Dominguez
Topic: 2037 Message: 2831

From one who has not been able to make a DT in a while, are we doing third Tuesday?
Jimmy
ke5peq

On Fri, Jan 17, 2014 at 3:34 AM, Rusty Haddock <rusty@...>wrote:

>
>
> Anyone interested? I'm thinking somewhere in McKinney this month, maybe
> Scott P's again although I'm open to most any place that's reasonably
> quiet.
>
> There's an interesting program out there for the Raspberry Pi called
> 'PiFM' which will broadcast an FM signal on a carrier from 1-250 MHz.
> It's intended as a very low-power xmitter for the FM Broadcast band
> with no extra equipment other than a wire tied to one of the GPIO pins.
> Have it speak a callsign from time to time and it may work on the 10m,
> 6m, 2m, and 220-MHz bands. During my initial play, er... tinkering the
> audio played fairly well. Range is kind of limited but a longer wire
> may help. I can bring my RPi if anyone is interested.
>
> If anyone has some mesh problems then we can hash them out.
>
> Your thoughts???
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>
>

2832. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-01-17 19:00:59 UTC
From: Rusty Haddock
Topic: 2037 Message: 2832

Jimmy Dominguez wrote:
>>From one who has not been able to make a DT in a while, are we doing third
>Tuesday?

Jimmy,
Kip and I are trying to get it started again but once a month on
3rd Tuesday. We didn't do December due to the proximity to Christmas.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2833. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-01-21 03:42:38 UTC
From: Rusty Haddock
Topic: 2037 Message: 2833

For those that wish to meet, let's gather at Scotty P's in McKinney at 7pm Tuesday night. Look around, I'll shoot for getting a table in the back room like last time.

Scotty P's Hamburgers
2950 Craig Drive
McKinney , Texas 75070

It would help to get there early as possible since the restaurant closes at 8:30pm which gives us about 90-minutes.

See you there!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2834. Bedford Node goes up tonight

Yahoo group: DAWG-HSMM
Date: 2014-01-21 19:52:06 UTC
From: <kenthasi@...>
Topic: 2834 Message: 2834

Here is another bright spot for the group. My Bedford node will be officially turned on tonight. It will have a 15db onmi at 32' up and a 23 db grid, horizontally polarized, pointed to the southwest towards Hurst and Fort Worth. The mid cities should have 3-4 nodes going up in the next few weeks. Hope we keep the MESH expansion going!

2835. Farmersville Node

Yahoo group: DAWG-HSMM
Date: 2014-01-21 19:56:47 UTC
From: <kenthasi@...>
Topic: 2835 Message: 2835

The node for slated for 3 miles south of Farmersville on 78 is coming together. The equipment is standing by for the official release of the BBHN Firmware. It will be a Ubiquiti Rocket M2 GPS with an AMO-2G13 omni. The Cat6 shielded/armored cable is already to the top of the 186ft tower and inside of conduit to boot. Drain wire is there also. Once the flash is complete, a couple of days of testing, and then then tower climber will do his thing. It hould serve the BBHN MESH community well out that way.

I will keep the group posted on the progress.

2836. RE: Farmersville Node

Yahoo group: DAWG-HSMM
Date: 2014-01-21 20:04:23 UTC
From: <kenthasi@...>
Topic: 2835 Message: 2836

Sorry for the typographical errors.

2837. RE: Bedford Node goes up tonight

Yahoo group: DAWG-HSMM
Date: 2014-02-01 06:00:11 UTC
From: <kenthasi@...>
Topic: 2834 Message: 2837

Bedford node has been up for 8 days without any hiccups. Now to get some neighbors.

2838. BBHN for [some] Ubiquiti

Yahoo group: DAWG-HSMM
Date: 2014-02-01 06:10:51 UTC
From: Rusty Haddock
Topic: 2838 Message: 2838

Just in case you haven't seen the announcement released within the last hour or so....

http://www.broadband-hamnet.org/documentation/186-ubnt-fw-release-101

See which models are supported and have at it!!!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2839. Getting ready for a node roll out

Yahoo group: DAWG-HSMM
Date: 2014-02-01 06:17:04 UTC
From: <kenthasi@...>
Topic: 2839 Message: 2839

Well, the Ubiquiti M2HP firmware was released tonight. I loaded the firmware on four nodes and got them configured with my call sign information. One of our other group members loaded 10 Linksys routers with BBHN firmware, as well. I hoping to get the Nanostation and Rocket loaded next week for Farmersville and Pottsboro. I am meeting with another group next Thursday that has quite a few Linksys routers as well. At last count, there were at no less than 30 nodes being loaded with firmware over the next 10 days. It will be quite a while before they are all deployed around the DFW area, but I am excited to see some progress. Our group will probably finish loading firmware on another 6 Ubiquiti nodes tomorrow.

2840. Orlando Hamcation 2015 Regional / National Event planned

Yahoo group: DAWG-HSMM
Date: 2014-02-10 16:22:41 UTC
From: <kd4wov@...>
Topic: 2840 Message: 2840

Hello everyone,
I know you looked at the subject line and thought what in the world, well let me explain. Central Florida hsmm group and several in the Palm beach county HSMM group are wanting to get some people from your group who maybe comming to Orlando next year to either speak at a forum or give us a over view of what has worked for your group. Our goal is to bring as many hsmm groups together as possible to exchange ideas and info about succes and failure. This exchange of info i believe will benifit HSMM in general.
This has been started because i found verly little info when i started 7 or 8 months ago on how to get started and what to do with hsmm.. I want to encourage groups like yours, help promote hsmm, and to provide places that hands on experimentation can be done. I have several things this year we plan locally to have some workshops. But our aim is to have a forum or symposium with as many HSMM groups that we can, and even promote bring your node and lets build a HSMM net during hamcation that will be a test bed for what happens when you have a large number of nodes on the air (will the network handle 200 nodes? what isues arise (aside from RF issues)? Plus it will be a great place to demistate HSMM to an audiance from all over the world (they come to Orlando for the nice warm winters we have and to visit Disney World).
We are starting to plan now, because we would like as much input and participation as we can muster. I realize you are not local but you can have a part in this, if you are willing to lend a hand. One goal that i want to try is to tunnel to groups like yours and see if we can do video feeds thru the HSMM net acrross the county thru tunneling (yes i know it is not ham radio at that point, but it will prove the connect ablility). If all goes according to plans even have a few participate in the forum via skype or google hangouts. As i get feedback and interest i will report back from time to time to update you all on the status.

you can email us to let me know your are interested
me Tom KD4WOV at kd4wov@earthlink.net or look for me on Google hangouts
JC NT4K at nt4k@cfl.rr.com

2841. RE: Orlando Hamcation 2015 Regional / National Event planned

Yahoo group: DAWG-HSMM
Date: 2014-02-10 17:13:03 UTC
From: <kenthasi@...>
Topic: 2840 Message: 2841

Interesting concept. I think a few of here in Dallas/Fort Worth may be interested.

2842. Re: [DAWG-HSMM] RE: Orlando Hamcation 2015 Regional / National Event planned

Yahoo group: DAWG-HSMM
Date: 2014-02-10 17:27:01 UTC
From: Tom Tishken KD4WOV AAV4DX WPON678
Topic: 2840 Message: 2842

Find out who is interested and let me know. i will try to do a google hangout in a few weeks for those interested in helping either from home or those that will be attending the hamcation.

thanks for your interest.

-----Original Message-----
From: kenthasi@...
Sent: Feb 10, 2014 12:13 PM
To: DAWG-HSMM@yahoogroups.com
Subject: [DAWG-HSMM] RE: Orlando Hamcation 2015 Regional / National Event planned

Interesting concept. I think a few of here in Dallas/Fort Worth may be interested.

De Tom Tishken
KD4WOV Ham Radio
AAV4DX US Army Mars
WPON678 GMRS (Class A CB)
WA4910SWL SWARL (Short Wave Amateur Radio Listener)
74478 10-10 #
Cypress Chapter # 2010
Straight Key Century Club #3684
Flying Pigs QRP Club International FP#-2978
GROL (general radiotelephone operator license) FCC licensed technician
Central States VHF Society Life Member
ARRL Certified Volunteer Examiner
W5YI Certified Volunteer Examiner
US Army Mars Trainer for the AAA4FL/V Net
1826355 ICQ
kd4wov@... jabber name
kd4wov or kd4wovatwork yahoo messaenger
kd4wov or kd4wovatwork AIM
A Founding member of Gator Mountain Amateur Radio Society
A Founding member of Amateur Community Service
A Founding Member of Link Association Across Florida

Are you Radio Active? Try a new mode or band today.
Follow me to 10 Meters where the DX is king.
Follow me on:
Twitter http://twitter.com/kd4wov
http://kd4wov.blogspot.com/
http://gplus.to/kd4wov google plus
http://friendfeed.com/kd4wov Frienfeed where all my stuff goes.

2843. Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-02-16 07:07:16 UTC
From: Rusty Haddock
Topic: 2037 Message: 2843

Any thoughts for Digital Tuesday? Anyone need some WRT54G's
or Ubiquiti devices loaded with firmware? Any new mesh nodes
gone up in the area?

Any suggestions about a meeting place? Scotty P's is convenient
in either Allen or McKinney. Any other suggestions?

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2844. RE: Farmersville Node

Yahoo group: DAWG-HSMM
Date: 2014-02-16 15:03:21 UTC
From: <kenthasi@...>
Topic: 2835 Message: 2844

Here is an update on the Farmersville node. The Ubiquiti Rocket has been flashed and testing went outstanding. The performance differences between a Linksys unit and the Rocket were astounding to say the least. The control node is a Ubiquiti Bullet M2HP by the way. The Rocket actually ended up being quite the project. The unit was taken down from a commercial WISP application that was functioning on the same tower that it will be redeployed on as a BBHN node. Unfortunately, when it was taken down, the ethernet cable was cut. It has been decided to replace the entire run of ethernet all the way down to the "shack". It will probably be a few weeks before this happens. There are two other projects that need to be completed on the tower as well, including new heliax for a repeater that is already up. All of the projects will be done at the same time to save the frustrations associated with tower climbing. There is also a 5.8GHz node to go on the tower, when the firmware is completed for BBHN. Sorry for the delays, but everyone involved in this deployment wants to make sure it is done right.

2845. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-02-16 23:36:26 UTC
From: Kipton Moravec
Topic: 2037 Message: 2845

On Sun, 2014-02-16 at 01:07 -0600, Rusty Haddock wrote:
> Any thoughts for Digital Tuesday? Anyone need some WRT54G's
> or Ubiquiti devices loaded with firmware? Any new mesh nodes
> gone up in the area?
>
> Any suggestions about a meeting place? Scotty P's is convenient
> in either Allen or McKinney. Any other suggestions?
>
> -Rusty-

I like Scotty P's except that they do not stay open very late. And they do not have an outlet in the room. :) So we need to start earlier. I can make 6:30 p.m. but probably not 6:00 p.m.

What about Spring Creek BBQ in McKinney? They are open later and the room has an outlet or 2.

I am interested in seeing your progress moving the SW menu's to Raspberry Pi.

I would also like to get a copy of your version that works on Raspberry Pi without the Menu's.

I would like to input Serial on the WRT54G serial port, and have it come out on another WRT54G serial port. Using the mesh as the carrier. How hard is that?

Anybody else have some thoughts?

Kip

2846. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-02-17 04:09:26 UTC
From: Mark J Culross
Topic: 2037 Message: 2846

Kip:

If you don't mind adding hardware to get you there, BlackBox has some VERY NICE serial-to-IP adapters (single serial & dual serial units) that work very well (we use them at work). I haven't tried it to make sure, but these type of adapters should not care that you are sending them through the mesh rather than the standard internet !!

Mark J Culross
KD5RXT

>_____
> From: Kipton Moravec <kip@...>
>To: DAWG-HSMM@yahoogroups.com
>Sent: Sunday, February 16, 2014 5:36 PM
>Subject: Re: [DAWG-HSMM] Digital Tuesday
>
>
>
>On Sun, 2014-02-16 at 01:07 -0600, Rusty Haddock wrote:
>> Any thoughts for Digital Tuesday? Anyone need some WRT54G's
>> or Ubiquiti devices loaded with firmware? Any new mesh nodes
>> gone up in the area?
>>
>> Any suggestions about a meeting place? Scotty P's is convenient
>> in either Allen or McKinney. Any other suggestions?
>>
>> -Rusty-
>
>I like Scotty P's except that they do not stay open very late. And they
>do not have an outlet in the room. :) So we need to start earlier. I
>can make 6:30 p.m. but probably not 6:00 p.m.
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>What about Spring Creek BBQ in McKinney? They are open later and the
>room has an outlet or 2.
>
>I am interested in seeing your progress moving the SW menu's to
>Raspberry Pi.
>
>I would also like to get a copy of your version that works on Raspberry
>Pi without the Menu's.
>
>I would like to input Serial on the WRT54G serial port, and have it come
>out on another WRT54G serial port. Using the mesh as the carrier. How
>hard is that?
>
>Anybody else have some thoughts?

>
>Kip
>
>
>
>

2847. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-02-17 04:18:35 UTC
From: Rusty Haddock
Topic: 2037 Message: 2847

Kipton Moravec wrote:
>On Sun, 2014-02-16 at 01:07 -0600, Rusty Haddock wrote:
>> Any thoughts for Digital Tuesday? Anyone need some WRT54G's
>> or Ubiquiti devices loaded with firmware? Any new mesh nodes
>> gone up in the area?
>>
>> Any suggestions about a meeting place? Scotty P's is convenient
>> in either Allen or McKinney. Any other suggestions?
>>
>> -Rusty-
>
>I like Scotty P's except that they do not stay open very late. And they
>do not have an outlet in the room. :) So we need to start earlier. I
>can make 6:30 p.m. but probably not 6:00 p.m.
>
>What about Spring Creek BBQ in McKinney? They are open later and the
>room has an outlet or 2.

The first time in McKinney we started at 6:30pm. Yeah, if we can get
the backroom near the projector there would be some sockets with our
power strips.

How 'bout 'Great Outdoors' east of 75 on Eldorado? Not sure if they
close at 8 or 9 (website says both).

There's also Dickie's (closes @9pm) just south of White on 75 on the
north bound side.

I just don't know which one(s) have any power sockets near the tables.

Anybody else have some other ideas?

>I am interested in seeing your progress moving the SW menu's to
>Raspberry Pi.

I'm kinda at a pausing point. I'm trying to decide how to handle the lone
ethernet socket. I'm leaning away from the San Diego crew's method of
using vlans and going with a switch for LAN or WAN for that port.

>I would also like to get a copy of your version that works on Raspberry
>Pi without the Menu's.

I'll bring my Pi.

>I would like to input Serial on the WRT54G serial port, and have it come
>out on another WRT54G serial port. Using the mesh as the carrier. How
>hard is that?

Trivial. Download 'ser2net' out of the packages on both nodes and setup the config files accordingly. Set up one end as a client and the other end as a server, which will wait for connections. Didn't I give a talk about this? :)

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2848. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-02-17 04:19:23 UTC
From: Kipton Moravec
Topic: 2037 Message: 2848

I do not mind extra HW but I do mind $230.95 each side.
I can set a 1200 baud packet link with HT's for less than that.

I think I can do better with two MESH Nodes.

Kip

On Sun, 2014-02-16 at 20:09 -0800, Mark J Culross wrote:
>
>
>
> Kip:
>
>
> If you don't mind adding hardware to get you there, BlackBox has some
> VERY NICE serial-to-IP adapters (single serial & dual serial units)
> that work very well (we use them at work). I haven't tried it to make
> sure, but these type of adapters should not care that you are sending
> them through the mesh rather than the standard internet !!
>
>
> Mark J Culross
> KD5RXT
>
>
> From: Kipton Moravec <kip@...>
> To: DAWG-HSMM@yahoogroups.com
> Sent: Sunday, February 16, 2014 5:36 PM
> Subject: Re: [DAWG-HSMM] Digital Tuesday
>
>
> On Sun, 2014-02-16 at 01:07 -0600, Rusty Haddock wrote:
> > Any thoughts for Digital Tuesday? Anyone need some WRT54G's
> > or Ubiquiti devices loaded with firmware? Any new mesh
> nodes
> > gone up in the area?
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> > Any suggestions about a meeting place? Scotty P's is
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> > in either Allen or McKinney. Any other suggestions?
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> > -Rusty-
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> And they
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> out on another WRT54G serial port. Using the mesh as the
> carrier. How
> hard is that?
>
> Anybody else have some thoughts?
>
> Kip
>

2849. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-02-17 04:42:40 UTC
From: Mark J Culross
Topic: 2037 Message: 2849

Kip:

Whoops, I should have included the model number in my original e-mail . . . this is what we use:

Single port:

http://www.blackbox.com/Store/Detail.aspx/1-Port-10-100-Device-Server-RS-232-422-485-DB9-M-Kit/LES301A%c4%82KIT

Still kind of expensive (at $131 each side), but nowhere the $230 each side that you thought !!

In case you're interested in the dual-port (at $201 each side):

http://www.blackbox.com/Store/Detail.aspx/2-Port-10-100-Device-Server-RS-232-422-485-DB9-M-Kit/LES302A%c4%82KIT

Mark J Culross
KD5RXT

>_____
> From: Kipton Moravec <kip@kdream.com>
>To: DAWG-HSMM@yahoogroups.com
>Sent: Sunday, February 16, 2014 10:19 PM
>Subject: Re: [DAWG-HSMM] Digital Tuesday
>
>
>
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>I think I can do better with two MESH Nodes.
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>Kip
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>> Kip:
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>> them through the mesh rather than the standard internet !!
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>>
>> Mark J Culross
>> KD5RXT
>>
>>
>> From: Kipton Moravec <kip@...>
>> To: DAWG-HSMM@yahoogroups.com
>> Sent: Sunday, February 16, 2014 5:36 PM
>> Subject: Re: [DAWG-HSMM] Digital Tuesday
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>> On Sun, 2014-02-16 at 01:07 -0600, Rusty Haddock wrote:
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>> carrier. How
>> hard is that?
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>> Anybody else have some thoughts?

```
>>
>> Kip
>>
>
>
>
```

2850. Re: [DAWG-HSMM] Digital Tuesday Dicky's 6:30

Yahoo group: DAWG-HSMM
Date: 2014-02-18 03:49:19 UTC
From: Kipton Moravec
Topic: 2037 Message: 2850

Not a lot of comments. If nobody objects lets do Dicky's at near White
on the Northbound side. 6:30.

Kip

On Sun, 2014-02-16 at 22:18 -0600, Rusty Haddock wrote:
> Kipton Moravec wrote:
> >On Sun, 2014-02-16 at 01:07 -0600, Rusty Haddock wrote:
> >> Any thoughts for Digital Tuesday? Anyone need some WRT54G's
> >> or Ubiquiti devices loaded with firmware? Any new mesh nodes
> >> gone up in the area?
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> close at 8 or 9 (website says both).
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> setup the config files accordingly. Set up one end as a client and
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> I give a talk about this? :)
>
> -Rusty-

2851. Re: [DAWG-HSMM] Digital Tuesday Dicky's 6:30

Yahoo group: DAWG-HSMM
Date: 2014-02-18 04:43:48 UTC
From: Rusty Haddock
Topic: 2037 Message: 2851

Kipton Moravec wrote:
>Not a lot of comments. If nobody objects lets do Dicky's at near White
>on the Northbound side. 6:30.

Dickey's BBQ in McKinney is on the north side of the McKinney Post Office,
on the north side of E Bos D'Arc Rd.

If you're coming from the south then take the exit for Louisiana/Virginia
Pkwy and continue north to the Post Office.

If you miss that exit you can take the exit for White Ave, turn right
at White Ave (going east), turn right again at Redbud Blvd and go south
towards the Post Office. Dickey's will be on your right after turning
right (west) at E Bos D'Arc Rd.

See you there!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2852. Re: [DAWG-HSMM] Digital Tuesday Dicky's 6:30

Yahoo group: DAWG-HSMM
Date: 2014-02-18 05:06:01 UTC
From: Douglas Kilgore
Topic: 2037 Message: 2852

Here's the address:
Dickey's *Barbecue* Pit
<http://maps.google.com/local_url?dq=dickies+barbecue+mckinney+tx&q=https://plus.google.com/105084131217014530423/about%3Fgl%3DUS%26hl%3Den-US&ved=0CBEQhgU&sa=X&ei=rOkCU_fTOYi5gQSGgYLICA&sig2=_tQQ9-MPlyt_zMzpmOoB0A&s=ANYYN7mmOqrPGTcDrOsZ4KtdT8M8iZSjNw>

600 N Central Expy, McKinney, TX ?

On 2/17/2014 10:43 PM, Rusty Haddock wrote:
> Kipton Moravec wrote:
> >Not a lot of comments. If nobody objects lets do Dicky's at near White
> >on the Northbound side. 6:30.
>
> Dickey's BBQ in McKinney is on the north side of the McKinney Post Office,
> on the north side of E Bos D'Arc Rd.
>
> If you're coming from the south then take the exit for Louisiana/Virginia
> Pkwy and continue north to the Post Office.
>
> If you miss that exit you can take the exit for White Ave, turn right
> at White Ave (going east), turn right again at Redbud Blvd and go south
> towards the Post Office. Dickey's will be on your right after turning
> right (west) at E Bos D'Arc Rd.
>
> See you there!
>
> -Rusty-

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2853. Spare Linksys Routers

Yahoo group: DAWG-HSMM
Date: 2014-02-18 19:39:50 UTC
From: dbspratt@juno.com
Topic: 2853 Message: 2853
Attachments: 1 described; binary payloads are missing from this source WARC

```
[ Attachment content not displayed ]
```

2854. FW: All NANUK watertight protective cases 50% off!

Yahoo group: DAWG-HSMM
Date: 2014-02-18 21:48:36 UTC
From: J.Gordon Beattie, Jr., W2TTT
Topic: 2854 Message: 2854

Randy had started an offline discussion about the need for cost-effective cases. Besides Pelican, there is Seahorse and Nanuk.

Thanks & 73,

Gordon Beattie, W2TTT

201.314.6964

From: CMC Government Supply [mailto:CMC_Government_Supply@...]
Sent: Tuesday, February 18, 2014 4:09 PM
To: w2ttt@...
Subject: All NANUK watertight protective cases 50% off!

Having trouble viewing this email? Click
<http://hosted.verticalresponse.com/354780/d8b66c9744/1471565525/ed53a1b308/
> Here To View

<http://cts.vresp.com/c/?CMCGovernmentSupply/d8b66c9744/ed53a1b308/2e350f0c7
1/utm_content=w2ttt%40att.net&utm_source=VerticalResponse&utm_medium=Email&u
tm_term=&utm_campaign=All%20NANUK%20watertight%20protective%20cases%2050%25%
20off%21>

<http://cts.vresp.com/c/?CMCGovernmentSupply/d8b66c9744/ed53a1b308/97d65643c
6/utm_content=w2ttt%40att.net&utm_source=VerticalResponse&utm_medium=Email&u
tm_term=Website&utm_campaign=All%20NANUK%20watertight%20protective%20cases%2
050%25%20off%21> Website /
<http://cts.vresp.com/c/?CMCGovernmentSupply/d8b66c9744/ed53a1b308/e37a13a38
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tm_term=Products&utm_campaign=All%20NANUK%20watertight%20protective%20cases%
2050%25%20off%21> Products /
<http://cts.vresp.com/c/?CMCGovernmentSupply/d8b66c9744/ed53a1b308/e2672ff37
b/utm_content=w2ttt%40att.net&utm_source=VerticalResponse&utm_medium=Email&u
tm_term=Contact&utm_campaign=All%20NANUK%20watertight%20protective%20cases%2
050%25%20off%21> Contact

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6/utm_content=w2ttt%40att.net&utm_source=VerticalResponse&utm_medium=Email&u
tm_term=&utm_campaign=All%20NANUK%20watertight%20protective%20cases%2050%25%
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tm_term=&utm_campaign=All%20NANUK%20watertight%20protective%20cases%2050%25%
20off%21>

NANUK 950

NANUK 935

NANUK 903

NANUK 904

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<http://cts.vresp.com/c/?CMCGovernmentSupply/d8b66c9744/ed53a1b308/d415a13970/utm_content=w2ttt%40att.net&utm_source=VerticalResponse&utm_medium=Email&utm_term=&utm_campaign=All%20NANUK%20watertight%20protective%20cases%2050%25%20off%21>

<http://cts.vresp.com/c/?CMCGovernmentSupply/d8b66c9744/ed53a1b308/2a1ea5593e/utm_content=w2ttt%40att.net&utm_source=VerticalResponse&utm_medium=Email&utm_term=&utm_campaign=All%20NANUK%20watertight%20protective%20cases%2050%25%20off%21>

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List Price: $379.99
Price: $189.99
Save: $190.00 (50%)
Add-ons: Cubed Foam,
Padded Divider

<http://img-ak.verticalresponse.com/media/d/3/e/d3e2f27935/d8b66c9744/65863061cf/library/nanuk/950_colors.jpg>

List Price: $269.99
Price: $134.99
Save: $135.00 (50%)
Add-ons: Cubed Foam,
Padded Divider, Strap

<http://img-ak.verticalresponse.com/media/d/3/e/d3e2f27935/d8b66c9744/65863061cf/library/nanuk/colordots.gif>

List Price: $44.99
Price: $22.50
Save: $22.49 (50%)
Add-ons: Cubed Foam, Strap

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List Price: $49.99
Price: $24.99
Save: $25.00 (50%)
Add-ons: Cubed Foam, Strap

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NANUK 905

NANUK 910

NANUK 915

NANUK 920

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20off%21>

List Price: $79.99
Price: $39.99
Save: $40.00 (50%)
Add-ons: Cubed Foam, Padded Divider, Strap

<http://img-ak.verticalresponse.com/media/d/3/e/d3e2f27935/d8b66c9744/65863061cf/library/nanuk/nanuk_905_color.jpg>

List Price: $89.99
Price: $44.99
Save: $45.00 (50%)
Add-ons: Cubed Foam, Strap

<http://img-ak.verticalresponse.com/media/d/3/e/d3e2f27935/d8b66c9744/65863061cf/library/nanuk/nanuk_910_color.jpg>

List Price: $129.99
Price: $64.99
Save: $65.00 (50%)
Add-ons: Cubed Foam, Padded Divider, Strap

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List Price: $159.99
Price: $79.99
Save: $80.00 (50%)
Add-ons: Cubed Foam, Padded Divider, Strap

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tm_term=&utm_campaign=All%20NANUK%20watertight%20protective%20cases%2050%25%
20off%21>

NANUK 925

NANUK 930

NANUK 940

NANUK 945

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tm_term=&utm_campaign=All%20NANUK%20watertight%20protective%20cases%2050%25%
20off%21>

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tm_term=&utm_campaign=All%20NANUK%20watertight%20protective%20cases%2050%25%
20off%21>

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2/utm_content=w2ttt%40att.net&utm_source=VerticalResponse&utm_medium=Email&u
tm_term=&utm_campaign=All%20NANUK%20watertight%20protective%20cases%2050%25%
20off%21>

List Price: $189.99
Price: $94.99
Save: $95.00 (50%)
Add-ons: Cubed Foam, Padded Divider, Strap

<http://img-ak.verticalresponse.com/media/d/3/e/d3e2f27935/d8b66c9744/658630
61cf/library/nanuk/colordots.gif>

List Price: $199.99
Price: $99.99
Save:$100.00(50%)
Add-ons: Cubed Foam, Padded Divider, Strap

<http://img-ak.verticalresponse.com/media/d/3/e/d3e2f27935/d8b66c9744/658630
61cf/library/nanuk/colordots.gif>

List Price: $219.99
Price: $109.99
Save:$110.00(50%)

Add-ons: Cubed Foam, Padded Divider, Strap

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List Price: $249.99
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Save:$125.00(50%)
Add-ons: Cubed Foam, Padded Divider, Strap

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<http://img-ak.verticalresponse.com/media/d/3/e/d3e2f27935/d8b66c9744/65863061cf/library/gsa.jpg>
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<http://img-ak.verticalresponse.com/media/d/3/e/d3e2f27935/d8b66c9744/65863061cf/library/gsa.jpg>
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tm_term=&utm_campaign=All%20NANUK%20watertight%20protective%20cases%2050%25%
20off%21>

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tm_term=&utm_campaign=All%20NANUK%20watertight%20protective%20cases%2050%25%
20off%21>

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tm_term=&utm_campaign=All%20NANUK%20watertight%20protective%20cases%2050%25%
20off%21>

<http://img-ak.verticalresponse.com/media/d/3/e/d3e2f27935/d8b66c9744/658630
61cf/library/gsa_sched.jpg>

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2855. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-02-20 01:02:19 UTC
From: Rusty Haddock
Topic: 2037 Message: 2855

Dunno about you but I think we had a good turnout last night at Dickey's. I think the manager at Dickey's was a little surprised to see us come in and unpack a bunch of laptops and stuff. Maybe we should get our food first before we start unpacking laptops and such just so they don't think we're just there to abuse their tables and power outlets. At least we didn't have to run a cable to the kitchen to get power. :)

How many showed up? Somewhere around 10, I think, and we had a visitor make the hike from Ada, OK.

I liked how it turned out last night with lots of firmware loading, showing off a couple of Bullets, a little swapfesting going on, and a good bit of information getting passed around. Despite it getting a little crowded it turned out to be a good workshop, which I enjoyed.

How 'bout you??

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2856. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-02-20 01:34:40 UTC
From: zaphod
Topic: 2037 Message: 2856

I would have came but, I could not figure out the calendar on the site to figure out where you were meeting....sorry.

_____
From: Rusty Haddock <rusty@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Wednesday, February 19, 2014 7:02 PM
Subject: Re: [DAWG-HSMM] Digital Tuesday

Dunno about you but I think we had a good turnout last night at Dickey's.
I think the manager at Dickey's was a little surprised to see us come
in and unpack a bunch of laptops and stuff. Maybe we should get our
food first before we start unpacking laptops and such just so they
don't think we're just there to abuse their tables and power outlets.
At least we didn't have to run a cable to the kitchen to get power. :)

How many showed up? Somewhere around 10, I think, and we had a visitor
make the hike from Ada, OK.

I liked how it turned out last night with lots of firmware loading,
showing off a couple of Bullets, a little swapfesting going on, and a
good bit of information getting passed around. Despite it getting a
little crowded it turned out to be a good workshop, which I enjoyed.

How 'bout you??

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2857. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-02-20 04:10:17 UTC
From: Don Henson
Topic: 2037 Message: 2857

Hello fellow Mesh'rs,

I traveled from Ada to participate and came away with all my questions answered. I purchased an antennae from Titan and a Bullet2HP off ebay today to place in the Central of our town. We have a failed glass plant (imagine that) and it has a very high silo for which I got permission to place this unit on. I was told it even has an elevator to the top? Beats climbing, huh. Thanks again guys for your enthusiasm and kind generosity.
. .

Don from Ada

If Tyranny and Oppression Come to this land It will be in the guise of fighting a foreign enemy.

James Madison

On Wed, Feb 19, 2014 at 7:34 PM, zaphod <zaphod1@...> wrote:

>
>
> I would have came but, I could not figure out the calendar on the site to
> figure out where you were meeting....sorry.
>
>
> ---
> *From:* Rusty Haddock <rusty@...>
> *To:* DAWG-HSMM@yahoogroups.com
> *Sent:* Wednesday, February 19, 2014 7:02 PM
> *Subject:* Re: [DAWG-HSMM] Digital Tuesday
>
>
> Dunno about you but I think we had a good turnout last night at Dickey's.
> I think the manager at Dickey's was a little surprised to see us come
> in and unpack a bunch of laptops and stuff. Maybe we should get our
> food first before we start unpacking laptops and such just so they
> don't think we're just there to abuse their tables and power outlets.
> At least we didn't have to run a cable to the kitchen to get power. :)
>
> How many showed up? Somewhere around 10, I think, and we had a visitor
> make the hike from Ada, OK.
>
> I liked how it turned out last night with lots of firmware loading,
> showing off a couple of Bullets, a little swapfesting going on, and a
> good bit of information getting passed around. Despite it getting a

```
> little crowded it turned out to be a good workshop, which I enjoyed.
>
> How 'bout you??
>
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | ( -< O o Van Alstyne (TX) Metropolitan Area
> |/\__V__/ Math illiteracy affects 7 out of 5 people!
>
>
>
>
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--
Math illiteracy affects 7 out of 5 people

2858. Re: [DAWG-HSMM] Digital Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-02-20 05:32:38 UTC
From: Rusty Haddock
Topic: 2037 Message: 2858

Don Henson wrote:
>Hello fellow Mesh'rs,
>
>I traveled from Ada to participate and came away with all my questions
>answered. I purchased an antennae from Titan and a Bullet2HP off ebay
>today to place in the Central of our town. We have a failed glass plant
>(imagine that) and it has a very high silo for which I got permission to
>place this unit on. I was told it even has an elevator to the top? Beats
>climbing, huh. Thanks again guys for your enthusiasm and kind generosity.

How much easier does it get? :)

You know where we are (but can move around a bit) so you're always
welcome to come down and visit or just ask further questions here on
the mailing list.

We enjoyed the visit and so glad to get all your questions answered!

Best of luck and 73

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2859. More BBHN nodes

Yahoo group: DAWG-HSMM
Date: 2014-02-20 18:12:24 UTC
From: Bill
Topic: 2859 Message: 2859

It was a great meeting Tuesday evening. Got a chance to test my first BBHN node. Works good.
Since the meeting I have installed a second node on a WRT54GL and I also was able to get
BBHN running on a Raspberry Pi. :-)

Thanks for setting up the meeting.

Bill Reed
NX5R

2860. Re: [DAWG-HSMM] More BBHN nodes

Yahoo group: DAWG-HSMM
Date: 2014-02-20 19:01:11 UTC
From: Rusty Haddock
Topic: 2859 Message: 2860

Bill wrote:
>It was a great meeting Tuesday evening. Got a chance to test my first
>BBHN node. Works good.
>Since the meeting I have installed a second node on a WRT54GL and I also
>was able to get BBHN running on a Raspberry Pi. :-)

Bill, are you using the HSMM-Pi software? How's that working out?

>Thanks for setting up the meeting.

Generally third Tuesdays. Watch the mailing list here for times and
locations. Suggestions for meeting places are greatly appreciated!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2861. Re: [DAWG-HSMM] More BBHN nodes

Yahoo group: DAWG-HSMM
Date: 2014-02-20 20:31:02 UTC
From: <bill@...>
Topic: 2859 Message: 2861

Yes, the HSMM-PI. I changed the ssid to the BBHN id. Are there any other changes that I should make to make it fully BBHN compliant?
It looks like the admin capabilities are a little sparse at this point, but enough to get going. I haven't explored it yet but I assume that all the admin stuff is possible by editing conf files. Status screens might be a little more difficult?
Bill

---In DAWG-HSMM@yahoogroups.com, <rusty@...> wrote:

Bill wrote:
>It was a great meeting Tuesday evening. Got a chance to test my first
>BBHN node. Works good.
>Since the meeting I have installed a second node on a WRT54GL and I also
>was able to get BBHN running on a Raspberry Pi. :-)

Bill, are you using the HSMM-Pi software? How's that working out?

>Thanks for setting up the meeting.

Generally third Tuesdays. Watch the mailing list here for times and
locations. Suggestions for meeting places are greatly appreciated!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2862. Re: [DAWG-HSMM] More BBHN nodes

Yahoo group: DAWG-HSMM
Date: 2014-02-20 22:51:15 UTC
From: Rusty Haddock
Topic: 2859 Message: 2862

bill@... wrote:

>Yes, the HSMM-PI. I changed the ssid to the BBHN id. Are there
>any other changes that I should make to make it fully BBHN compliant?

If it's meshing with your WRT's then no. If not then make sure you have
the SSID exactly correct. Also make sure to turn off the secure-plugin
to OLSR, if it has been enabled. That's about all I can think so.
If it's still not meshing, give a holler!

>It looks like the admin capabilities are a little sparse at this
>point, but enough to get going. I haven't explored it yet but I
>assume that all the admin stuff is possible by editing conf files.
>Status screens might be a little more difficult?

Agreed. All the admin stuff is about config files. :) The web interface
allows you do modify them and execute helper scripts and programs without
knowing the Unix shell, editors, which files to mess up, and all that
other good stuff.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2863. Re: [DAWG-HSMM] More BBHN nodes

Yahoo group: DAWG-HSMM
Date: 2014-02-21 15:31:37 UTC
From: <bill@...>
Topic: 2859 Message: 2863

Yes, it's meshing!!!! It looks like the security plugin is not loaded by default (at least not from olsrd.conf).
Have you tried to build the olsrd core with the admin options enabled?
Bill

2864. Re: [DAWG-HSMM] More BBHN nodes

Yahoo group: DAWG-HSMM
Date: 2014-02-21 16:53:32 UTC
From: Rusty Haddock
Topic: 2859 Message: 2864

bill@... wrote:
>Yes, it's meshing!!!! It looks like the security plugin is not loaded by default (at least not from olsrd.conf).
>Have you tried to build the olsrd core with the admin options enabled?
>Bill

When we went from HSMM-Mesh v0.4.3 (when the original HSMM-Pi was written) to BBHN v1.0.0 last August the security plugin was turned OFF in the WRT54G's. Because of this and a few other changes made, anyone using HSMM-Pi should probably have a look at this document:

http://www.broadband-hamnet.org/documentation/171-broadband-hamnet-v100-quickstart.html

If you're not familiar with our website and you intend on working with the mesh firmware (or compatibles) then I would STRONGLY encourage you to visit and browse the broadband-hamnet.org website!

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2865. Digital Tuesday - NE Tarrant/Denton County

Yahoo group: DAWG-HSMM
Date: 2014-02-21 19:26:38 UTC
From: Jason, kc5hwb
Topic: 2865 Message: 2865

Greetings All,

We want to setup a Digital Tuesday for NE Tarrant and Denton Counties, similar to the one that Rusty has in McKinney each month.

This meeting will focus mostly on the Flower Mound - Grapevine - Mid Cities - N Fort Worth areas that a group of us are trying to deploy BBHN to. Anyone and everyone is welcome to attend, but we'll be mainly talking about nodes and BBHN activities in these areas. Several nodes are already in place.

If you are new to BBHN and have questions, you are also invited to attend. If you have tower space at your home, or in a prominent area, and are willing to allow us to deploy a node (at no expense to you) then you are also welcome to attend.

We will probably meet somewhere around the Grapevine Mills Mall area, at a restaurant. This way we can pull people from Mid Cities, Grapevine, Colleyville and South Denton county. If I can get an idea of who wants to attend, I can better determine a location (or perhaps we just see who shows up this first time and change venues if needed on the next gathering)

Feel free to email me directly at kc5hwb@... if you have questions or anything you want to contribute. Please RSVP to this event if you can, just so I can get an idea of how many people to expect.

We are planning our first meet on Tuesday, March 4. I will send another email next week to verify location. Any suggestions are welcome.

--
Jason, kc5hwb
www.grapevinehamradio.com

2866. Re: Digital Tuesday - NE Tarrant/Denton County

Yahoo group: DAWG-HSMM
Date: 2014-03-03 01:18:50 UTC
From: Jason, kc5hwb
Topic: 2865 Message: 2866

Hey folks

Sorry I haven't emailed before now, but we are still planning the Digital Tuesday Event on Tuesday evening at 7pm, March 4. We'll be meeting at the Fuzzy's Tacos in Grapevine, at the corner of Glade Rd and Hwy 121. I've had only a few replies to my last email, so we should have plenty of room to people who are interested in attending. My hope is to keep this going each month, and let the group grow with time.

Please reply with any questions. I look forward to seeing several of you there.

Jason - KC5HWB

On Fri, Feb 21, 2014 at 1:26 PM, Jason, kc5hwb <kc5hwb@...
> wrote:

> Greetings All,
>
> We want to setup a Digital Tuesday for NE Tarrant and Denton Counties,
> similar to the one that Rusty has in McKinney each month.
>
> This meeting will focus mostly on the Flower Mound - Grapevine - Mid
> Cities - N Fort Worth areas that a group of us are trying to deploy BBHN
> to. Anyone and everyone is welcome to attend, but we'll be mainly talking
> about nodes and BBHN activities in these areas. Several nodes are already
> in place.
>
> If you are new to BBHN and have questions, you are also invited to attend.
> If you have tower space at your home, or in a prominent area, and are
> willing to allow us to deploy a node (at no expense to you) then you are
> also welcome to attend.
>
> We will probably meet somewhere around the Grapevine Mills Mall area, at a
> restaurant. This way we can pull people from Mid Cities, Grapevine,
> Colleyville and South Denton county. If I can get an idea of who wants to
> attend, I can better determine a location (or perhaps we just see who shows
> up this first time and change venues if needed on the next gathering)
>
> Feel free to email me directly at kc5hwb@... if you
> have questions or anything you want to contribute. Please RSVP to this
> event if you can, just so I can get an idea of how many people to expect.
>
> We are planning our first meet on Tuesday, March 4. I will send another
> email next week to verify location. Any suggestions are welcome.
>

```
> --
> Jason, kc5hwb
> www.grapevinehamradio.com
>

--
Jason, kc5hwb
www.grapevinehamradio.com
```

2867. ANNOUNCEMENT: 2014 ARRL/TAPR DCC (Digital Communications Conference) - Austin, TX, September 5th - 7th

Yahoo group: DAWG-HSMM
Date: 2014-03-14 23:14:18 UTC
From: Mark Thompson
Topic: 2867 Message: 2867
Attachments: 4 described; binary payloads are missing from this source WARC

Please forward this announcement to clubs, groups & hams who might be interested.

33rd Annual 2014 ARRL/TAPR DCC (Digital Communications Conference)
Announcement

Friday, September 5th - Sunday, September 7th

Austin Marriott South in Austin, TX

The DCC is returning to Texas this year.

The DCC has two days of Technical forums on Friday & Saturday and
a concurrent Introductory forum on Saturday.

On Saturday night the banquet will feature an interesting speaker and
the Sunday morning Seminar will be a deep-dive into a technical topic.

Those who submit Technical Papers for inclusion in the annual DCC Proceedings will receive preference for a forum,
however you can propose to present a forum without submitting a technical paper.

There will be free tables in the demo room to demonstrate projects and vendors to demonstrate products.

We encourage those interested in attending the DCC to make your hotel reservations early to get special TAPR hotel rate.

Updated DCC Information Available on TAPR's Web Site at:
www.tapr.org/dcc

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ARRL/TAPR DCC 1/2-page Flyer & Full-Page Poster
in BOTH Graphic Image & .PDF Formats
Attached for Inclusion in Web Sites, Newsletters & Flyers.

2868. Digital Tuesday -- This Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-03-15 21:58:43 UTC
From: Kipton Moravec
Topic: 2868 Message: 2868

18 March is the Third Tuesday. Where do we want to hold it this week?

It does not matter to me I am pretty flexible.

We had outlets at Dicky's BBQ in McKinney. So I like that.
They are also open to 9:00 I like that.

Anyone want to propose somewhere else?

I would like to agree before Sunday night, so I can get the word out.

Regards,
Kip

2869. Re: [DAWG-HSMM] Digital Tuesday -- This Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-03-16 06:57:43 UTC
From: zaphod
Topic: 2868 Message: 2869

how bout somewhere in fairview they have lots of eating places there.

From: Kipton Moravec <kip@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Saturday, March 15, 2014 4:58 PM
Subject: [DAWG-HSMM] Digital Tuesday -- This Tuesday

18 March is the Third Tuesday. Where do we want to hold it this week?

It does not matter to me I am pretty flexible.

We had outlets at Dicky's BBQ in McKinney. So I like that.
They are also open to 9:00 I like that.

Anyone want to propose somewhere else?

I would like to agree before Sunday night, so I can get the word out.

Regards,
Kip

2870. Digital Tuesday at Dickey's in McKinney on Central Experssway 6:30 p.m.

Yahoo group: DAWG-HSMM
Date: 2014-03-18 02:27:18 UTC
From: Kipton Moravec
Topic: 2870 Message: 2870

Tuesday March 17, Digital Tuesday

Dickey's BBQ
600 N. Central Expressway
McKinney, TX 75070

Same as last month.

Kip

2871. Re: [DAWG-HSMM] Digital Tuesday -- This Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-03-18 07:27:40 UTC
From: Rusty Haddock
Topic: 2868 Message: 2871

zaphod wrote:
>how bout somewhere in fairview they have lots of eating places there.

Yup, lots of places but which ones can we plug in at?

Zaphod, how 'bout, when you have some time, do a little recon' for us
and let us know which, if any, places that have a couple of power sockets
in the dining area, maybe if they have WiFi available.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2872. Re: [DAWG-HSMM] Digital Tuesday -- This Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-03-18 13:35:51 UTC
From: zaphod
Topic: 2868 Message: 2872

how many plugs do you need, how many people, do you need private room, what do we need the plugs for?

Erick

_____
From: Rusty Haddock <rusty@...>
To: "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@yahoogroups.com>
Sent: Tuesday, March 18, 2014 2:27 AM
Subject: Re: [DAWG-HSMM] Digital Tuesday -- This Tuesday

zaphod wrote:
>how bout somewhere in fairview they have lots of eating places there.

Yup, lots of places but which ones can we plug in at?

Zaphod, how 'bout, when you have some time, do a little recon' for us
and let us know which, if any, places that have a couple of power sockets
in the dining area, maybe if they have WiFi available.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2873. Re: [DAWG-HSMM] Digital Tuesday -- This Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-03-18 17:32:54 UTC
From: Rusty Haddock
Topic: 2868 Message: 2873

zaphod wrote:
>how many plugs do you need, how many people, do you need private
>room, what do we need the plugs for?

Erick,

Actually, we need wall/power sockets to plugin an extension cord and
power strip for laptops and nodes, which are all low power stuff so
we're not going to put a dent into someone's electricity bill.
We can do with one socket as we did last month.

Last time was a big month and we had about a dozen folks. Let's say
'tween 6 & 12.

A private room would be nice if it only requires a reservation but we
can shlep off into a corner, near a power socket, if the place isn't
busy on Tuesday nights.

How's that?

-Rusty-

>_____
> From: Rusty Haddock <rusty@...>
>To: "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@yahoogroups.com>
>Sent: Tuesday, March 18, 2014 2:27 AM
>Subject: Re: [DAWG-HSMM] Digital Tuesday -- This Tuesday
>
>
>
>?
>zaphod wrote:
>>how bout somewhere in fairview they have lots of eating places there.
>
>Yup, lots of places but which ones can we plug in at?
>
>Zaphod, how 'bout, when you have some time, do a little recon' for us
>and let us know which, if any, places that have a couple of power sockets
>in the dining area, maybe if they have WiFi available.
>
>-Rusty-
>--
>_____ Rusty Haddock <=> AE5AE
>|\/ o \ o Way out yonder in the
>| (-< O o Van Alstyne (TX) Metropolitan Area
>|/__V__/ Math illiteracy affects 7 out of 5 people!
>

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>
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2874. Re: [DAWG-HSMM] Digital Tuesday -- This Tuesday

Yahoo group: DAWG-HSMM
Date: 2014-03-18 20:00:04 UTC
From: zaphod
Topic: 2868 Message: 2874

Super thanks....I will survey at my earliest.

E

_____
From: Rusty Haddock <rusty@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Tuesday, March 18, 2014 12:32 PM
Subject: Re: [DAWG-HSMM] Digital Tuesday -- This Tuesday

zaphod wrote:
>how many plugs do you need, how many people, do you need private
>room, what do we need the plugs for?

Erick,

Actually, we need wall/power sockets to plugin an extension cord and
power strip for laptops and nodes, which are all low power stuff so
we're not going to put a dent into someone's electricity bill.
We can do with one socket as we did last month.

Last time was a big month and we had about a dozen folks. Let's say
'tween 6 & 12.

A private room would be nice if it only requires a reservation but we
can shlep off into a corner, near a power socket, if the place isn't
busy on Tuesday nights.

How's that?

-Rusty-

>_____
> From: Rusty Haddock <rusty@...>
>To: "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@yahoogroups.com>
>Sent: Tuesday, March 18, 2014 2:27 AM
>Subject: Re: [DAWG-HSMM] Digital Tuesday -- This Tuesday
>
>
>
>
>zaphod wrote:
>>how bout somewhere in fairview they have lots of eating places there.
>
>Yup, lots of places but which ones can we plug in at?
>
>Zaphod, how 'bout, when you have some time, do a little recon' for us

```
>and let us know which, if any, places that have a couple of power sockets
>in the dining area, maybe if they have WiFi available.
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>-Rusty-
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>_____ Rusty Haddock <=> AE5AE
>|\/ o \ o Way out yonder in the
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_____ Rusty Haddock <=> AE5AE
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| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2875. Installing the firmware on a Openwrt router..

Yahoo group: DAWG-HSMM
Date: 2014-03-18 21:15:32 UTC
From: <chrysostome1@...>
Topic: 2875 Message: 2875

Hi everybody,
I have a router that is running openwrt adjustment
http://downloads.openwrt.org/attitude_adjustment/12.09-rc2/ramips/rt288x/
http://downloads.openwrt.org/attitude_adjustment/12.09-rc2/ramips/rt288x/
I would like to install the hsmm firmware but I can´t find a good tutorial that details it...
Is there a link that shows how to do it ?
Thanks

2876. Re: [DAWG-HSMM] Installing the firmware on a Openwrt router..

Yahoo group: DAWG-HSMM
Date: 2014-03-18 21:23:54 UTC
From: Dallas KD4HNX
Topic: 2875 Message: 2876

Just follow the normal install...
Openwrt, DD-WRT, Tomato, etc follow the same format as the original Linksys instructions...

Same 192.168..... Same passwords after doing the reset...

Go to the admin area and install a new firmware upload...

This has worked for me and I've pickup just about every version of the above at our local Goodwill here in Austin...

73 Dallas, KD4HNX
http://www.austinhams.com
http://www.arrlstx.org

No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!

From: "chrysostome1@..." <chrysostome1@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Tuesday, March 18, 2014 4:15 PM
Subject: [DAWG-HSMM] Installing the firmware on a Openwrt router..

Hi everybody,
I have a router that is running openwrt adjustment
http://downloads.openwrt.org/attitude_adjustment/12.09-rc2/ramips/rt288x/
I would like to install the hsmm firmware but I can´t find a good tutorial that details it...
Is there a link that shows how to do it ?
Thanks

2877. Re: [DAWG-HSMM] Installing the firmware on a Openwrt router..

Yahoo group: DAWG-HSMM
Date: 2014-03-18 21:25:48 UTC
From: zaphod
Topic: 2875 Message: 2877

try this and let me know if it helps....

http://www.youtube.com/watch?v=Vao9smM86is

From: "chrysostome1@yahoo.com" <chrysostome1@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Tuesday, March 18, 2014 4:15 PM
Subject: [DAWG-HSMM] Installing the firmware on a Openwrt router..

Hi everybody,
I have a router that is running openwrt adjustment
http://downloads.openwrt.org/attitude_adjustment/12.09-rc2/ramips/rt288x/
I would like to install the hsmm firmware but I can´t find a good tutorial that details it...
Is there a link that shows how to do it ?
Thanks

2878. Re: [DAWG-HSMM] Digital Tuesday at Dickey's in McKinney on Central Experssway 6:30 p.m.

Yahoo group: DAWG-HSMM
Date: 2014-03-18 21:28:53 UTC
From: zaphod
Topic: 2870 Message: 2878

what are we doing tonight the yahoo sites calendar is a blank slate.

E

From: Kipton Moravec <kip@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Monday, March 17, 2014 9:27 PM
Subject: [DAWG-HSMM] Digital Tuesday at Dickey's in McKinney on Central Experssway 6:30 p.m.

Tuesday March 17, Digital Tuesday

Dickey's BBQ
600 N. Central Expressway
McKinney, TX 75070

Same as last month.

Kip

2879. Re: [DAWG-HSMM] Installing the firmware on a Openwrt router..

Yahoo group: DAWG-HSMM
Date: 2014-03-18 21:28:07 UTC
From: chrysostome1@yahoo.com
Topic: 2875 Message: 2879

Thanks ... I will try it...

Sent from Yahoo Mail on Android

2880. Bullet question

Yahoo group: DAWG-HSMM
Date: 2014-03-22 18:02:32 UTC
From: Frank Roesch
Topic: 2868 Message: 2880

Has anyone in the Dallas area put up a Ubiquti Bullet 2HP with an Omni antenna.

I'm contemplating about putting a no maintenance system on one of the water towers here in Rowlett, TX. to test and maybe spark some local interest.

I'm also wondering with the above unit would it be able to join any of the already established mesh networks in the area ?

Any suggestions and recommended vendors ?

Thanks

Frank K5FER

2881. Re: [DAWG-HSMM] Bullet question

Yahoo group: DAWG-HSMM
Date: 2014-03-22 18:37:20 UTC
From: zaphod1@swbell.net
Topic: 2868 Message: 2881

Working on that as we speak.

Sent from Yahoo Mail on Android

2882. Re: [DAWG-HSMM] Bullet question

Yahoo group: DAWG-HSMM
Date: 2014-03-22 20:39:49 UTC
From: <ims.ihc@...>
Topic: 2868 Message: 2882

I have one ready to deploy that currently has an omni attached. I have a location in Garland, Richardson and Rockwall that currently have WRT54G's with stock antennas. I can tell you from my old QTH in Rowlett to the Garland location a pair of Ubiquiti Bullets made the trip of about 4 miles with grid antennas. Where is the water tower location, I would like to use RMD and see if any of the locations listed above might be feasible?

2883. Re: [DAWG-HSMM] Bullet question

Yahoo group: DAWG-HSMM
Date: 2014-03-22 21:07:28 UTC
From: zaphod1@swbell.net
Topic: 2868 Message: 2883

They take a lot of height to get distance out of them.

Sent from Yahoo Mail on Android

2884. RE: [DAWG-HSMM] Bullet question

Yahoo group: DAWG-HSMM
Date: 2014-03-22 21:11:44 UTC
From: Frank Roesch
Topic: 2868 Message: 2884

I like the tower across from the High School on Pres. George Bush. It in the center of town and has good line of site in most directions or an old antenna tower on Main Street.

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of ims.ihc@...
Sent: Saturday, March 22, 2014 3:40 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Bullet question

I have one ready to deploy that currently has an omni attached. I have a location in Garland, Richardson and Rockwall that currently have WRT54G's with stock antennas. I can tell you from my old QTH in Rowlett to the Garland location a pair of Ubiquiti Bullets made the trip of about 4 miles with grid antennas. Where is the water tower location, I would like to use RMD and see if any of the locations listed above might be feasible?

2885. WiFi dongle for Raspberry Pi?

Yahoo group: DAWG-HSMM
Date: 2014-03-24 15:39:07 UTC
From: John
Topic: 2868 Message: 2885

Has anyone used the TP-LINK TL-WN722N USB wireless adapter?

http://www.newegg.com/Product/Product.aspx?Item=N82E16833704045

--
John, W9DDD

2886. Re: [DAWG-HSMM] WiFi dongle for Raspberry Pi?

Yahoo group: DAWG-HSMM
Date: 2014-03-24 17:29:41 UTC
From: chrysostome1@yahoo.com
Topic: 2868 Message: 2886

Hello is there an official daw-hsmm firmware or an official procedure on how to install it ?
I searched online and I can't see anything.
Can someone please show me where are the installation files ?

Thanks,
Chris

Sent from Yahoo Mail on Android

2887. Re: [DAWG-HSMM] WiFi dongle for Raspberry Pi?

Yahoo group: DAWG-HSMM
Date: 2014-03-24 17:45:31 UTC
From: Rusty Haddock
Topic: 2868 Message: 2887

```
John wrote:
>Has anyone used the TP-LINK TL-WN722N USB wireless adapter?

Not quite -- I'm using the WN721N model with good success with the
current release. Most any Atheros-based wireless adapter should
work fine with the RPi.

If you want to use the Edimax models then you'll need to back up to the
Sept 2012 release of Raspian before the networking changed. Oh yeah,
if you do that then don't 'apt-get upgrade' your Raspbian release or
your Edimax still probably stop functioning.

This is what I had to do to get HSMM-Pi working with the Edimax adapter.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2888. Re: [DAWG-HSMM] WiFi dongle for Raspberry Pi?

Yahoo group: DAWG-HSMM
Date: 2014-03-24 17:55:05 UTC
From: Rusty Haddock
Topic: 2868 Message: 2888

chrysostome1@... wrote:
>Hello is there an official daw-hsmm firmware or an official procedure on how to install it ?
>I searched online and I can't see anything.
>Can someone please show me where are the installation files ?

Firmware for what, Chris???

There is no DAWG-HSMM software, official or otherwise. If you're looking for firmware for the WRT54G or selected Ubiquiti devices then visit http://broadband-hamnet.org and visit the download area.

If you're looking for something to run on your Raspberry Pi then google HSMM-Pi but they are not affiliated with the Broadband-Hamnet group. Their package for the RPi does "mesh" with the BBHN firmware though. Sadly, it does have some minor problems and hasn't been updated in about 8-months, give or take.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2889. Re: [DAWG-HSMM] WiFi dongle for Raspberry Pi?

Yahoo group: DAWG-HSMM
Date: 2014-03-24 18:03:25 UTC
From: John
Topic: 2868 Message: 2889

OK, I see the difference seems to be detachable vs. built in antenna.

Your comments about the Edimax models sounds like a discussion at McKinney meet this past Tuesday. Any reason to prefer Edimax?

I recognize your signature from the Siteplayer list.

On 3/24/2014 11:45 AM, Rusty Haddock wrote:
> John wrote:
> >Has anyone used the TP-LINK TL-WN722N USB wireless adapter?
>
> Not quite -- I'm using the WN721N model with good success with the
> current release. Most any Atheros-based wireless adapter should
> work fine with the RPi.
>
> If you want to use the Edimax models then you'll need to back up to the
> Sept 2012 release of Raspian before the networking changed. Oh yeah,
> if you do that then don't 'apt-get upgrade' your Raspbian release or
> your Edimax still probably stop functioning.
>
> This is what I had to do to get HSMM-Pi working with the Edimax adapter.
>
> -Rusty-

--
John, W9DDD

2890. Re: [DAWG-HSMM] WiFi dongle for Raspberry Pi?

Yahoo group: DAWG-HSMM
Date: 2014-03-24 18:18:08 UTC
From: chrysostome1@yahoo.com
Topic: 2868 Message: 2890

Thanks Rusty

Sent from Yahoo Mail on Android

2891. Re: [DAWG-HSMM] WiFi dongle for Raspberry Pi?

Yahoo group: DAWG-HSMM
Date: 2014-03-24 18:46:43 UTC
From: Rusty Haddock
Topic: 2868 Message: 2891

John wrote:
>OK, I see the difference seems to be detachable vs. built in antenna.
>
>Your comments about the Edimax models sounds like a discussion at McKinney
>meet this past Tuesday. Any reason to prefer Edimax?

It was small, cheap, and available when I got my Pi. If I can get away
with something that sticks out like the Tl-Links they make for a great
WiFi module.

>I recognize your signature from the Siteplayer list.

Yup, I was actively supporting those folks back in the day. It was an
interesting little piece of hardware for its time. A $35 RPi blows it
away these days.

Gotta run help the wife. Cya!
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2892. Wireless Mesh Networking will change the world

Yahoo group: DAWG-HSMM
Date: 2014-03-25 16:26:51 UTC
From: <n5sqa@...>
Topic: 2892 Message: 2892

It will undoubtedly be available for Android devices, if not already.

http://www.cultofmac.com/271225/appreciated-ios-7-feature-will-change-world/

73
Ron

2893. Re: [DAWG-HSMM] Wireless Mesh Networking will change the world

Yahoo group: DAWG-HSMM
Date: 2014-03-25 17:24:42 UTC
From: John
Topic: 2892 Message: 2893

Being new to the list, I don't know if folks are aware of a similar project.

http://villagetelco.org/mesh-potato/

They have built their own hardware which is relatively inexpensive.

On 3/25/2014 10:26 AM, n5sqa@... wrote:
> It will undoubtedly be available for Android devices, if not already.
>
> http://www.cultofmac.com/271225/appreciated-ios-7-feature-will-change-world/
>
> 73
> Ron
>
>
>
>
>
> ------------------------------------
>
> Yahoo Groups Links
>
>
>

--
John, W9DDD

2894. Re: [DAWG-HSMM] Wireless Mesh Networking will change the world

Yahoo group: DAWG-HSMM
Date: 2014-03-26 05:21:47 UTC
From: Todd Caldwell
Topic: 2892 Message: 2894

OpenGarden has been out for Android for quite some time. Use caution -
it's pesky about opening up connections.

Todd - K5SLR

n5sqa@... wrote:
> It will undoubtedly be available for Android devices, if not already.
>
> http://www.cultofmac.com/271225/appreciated-ios-7-feature-will-change-world/
>
> 73
> Ron
>
>
>
>

2895. RE: [DAWG-HSMM] Bullet question

Yahoo group: DAWG-HSMM
Date: 2014-03-27 19:03:15 UTC
From: <kc5dfc@...>
Topic: 2868 Message: 2895

RMD findings:

Rowlett HS Water Tower ---> Garland Location
9.9km (6.2 Miles)
Might work with directional antennas, obstruction near downtown Garland. Shortest path not the best in this case.

Rowlett HS Water Tower ---> Richardson Location:
15.48km (9.62 Miles)
Should be viable with 15dBi Omni antennas according to RMD, I am skeptical it will make the trip without a directional antenna on at least one end.

Rowlett HS Water Tower ---> Rockwall Location
11.6 km (7.2 Miles)
Should be viable with 15dBi Omni antennas according to RMD, I am skeptical it will make the trip without a directional antenna on at least one end.

I can put a grid antenna on Richardson and possibly a Rootenna on Rockwall to see if we can make the trip. I can also try a grid on Garland but I have a feeling it wont work. I think the location of the HS tower is good and worth setting up a node.
73
KC5DFC

2896. RE: [DAWG-HSMM] Bullet question

Yahoo group: DAWG-HSMM
Date: 2014-03-27 20:45:05 UTC
From: Frank Roesch
Topic: 2868 Message: 2896

Thank you for the information. I'll keep you informed as I put the system together and get to the point to put it up.

Frank

K5FER

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of kc5dfc@...
Sent: Thursday, March 27, 2014 2:03 PM
To: DAWG-HSMM@yahoogroups.com
Subject: RE: [DAWG-HSMM] Bullet question

RMD findings:

Rowlett HS Water Tower ---> Garland Location

9.9km (6.2 Miles)

Might work with directional antennas, obstruction near downtown Garland. Shortest path not the best in this case.

Rowlett HS Water Tower ---> Richardson Location:

15.48km (9.62 Miles)

Should be viable with 15dBi Omni antennas according to RMD, I am skeptical it will make the trip without a directional antenna on at least one end.

Rowlett HS Water Tower ---> Rockwall Location

11.6 km (7.2 Miles)

Should be viable with 15dBi Omni antennas according to RMD, I am skeptical it will make the trip without a directional antenna on at least one end.

I can put a grid antenna on Richardson and possibly a Rootenna on Rockwall to see if we can make the trip. I can also try a grid on Garland but I have a feeling it wont work. I think the location of the HS tower is good and worth setting up a node.

73

KC5DFC

2897. Re: Bullet question

Yahoo group: DAWG-HSMM
Date: 2014-03-28 10:50:17 UTC
From: <kenthasi@...>
Topic: 2868 Message: 2897

I have a Bullet M2HP up at the qth. It is 40' up over in Bedford. On Tuesday morning, we have a deployment at 250` in Denton. We are still working on the deployment email miles south of Farmersville. The trustee of the tower is having some health issues and coupled with a busy schedule had really slowed things down there. That is a Rocket with H&V antenna by the way. Next week I will report back on the Denton testing. I have been told that I can deploy nodes on two communication towers near Denton. One at 1000' one at 750' or so. Maybe that will bubble to the top one day.

2898. Re: [DAWG-HSMM] Bullet question

Yahoo group: DAWG-HSMM
Date: 2014-03-28 16:15:05 UTC
From: Rob Martin
Topic: 2868 Message: 2898

I'm interested in what you are doing but am out of your area and don't recognize the names. Might you be able to mark these locations on a Google Earth map and then post a screen shot?

Thanks.

Rob

K7QJ / G3WKH

From: "kc5dfc@..." <kc5dfc@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Thursday, March 27, 2014 12:03 PM
Subject: RE: [DAWG-HSMM] Bullet question

RMD findings:

Rowlett HS Water Tower ---> Garland Location
9.9km (6.2 Miles)
Might work with directional antennas, obstruction near downtown Garland. Shortest path not the best in this case.

Rowlett HS Water Tower ---> Richardson Location:
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Rowlett HS Water Tower ---> Rockwall Location
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I can put a grid antenna on Richardson and possibly a Rootenna on Rockwall to see if we can make the trip. I can also try a grid on Garland but I have a feeling it wont work. I think the location of the HS tower is good and worth setting up a node.
73
KC5DFC

2899. Re: [DAWG-HSMM] Bullet question

Yahoo group: DAWG-HSMM
Date: 2014-03-28 17:20:01 UTC
From: Rusty Haddock
Topic: 2868 Message: 2899

Rob Martin wrote:

>I'm interested in what you are doing but am out of your area and
>don't recognize the names. Might you be able to mark these locations
>on a Google Earth map and then post a screen shot?

Rob,
All locations (Rowlett, Rockwall, Garland, Richardson) are suburbs
of Dallas, Texas to the east around to the north. This is the
DAWG-HSMM, Dallas Area Working Group of (what was formerly known as
HSMM, now BBHN).

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2900. Planning document?

Yahoo group: DAWG-HSMM
Date: 2014-03-28 18:02:32 UTC
From: Floyd Rodgers
Topic: 2868 Message: 2900

Does an overall plan document exist for this group of what projects are in work or planned?

2901. Re: [DAWG-HSMM] Planning document?

Yahoo group: DAWG-HSMM
Date: 2014-03-28 19:42:26 UTC
From: Rusty Haddock
Topic: 2868 Message: 2901

```
Floyd Rodgers wrote:
>Does an overall plan document exist for this group of what projects are
>in work or planned?

No. All projects belong to their respective owners, not DAWG-HSMM.
Unfortunately, we don't collect them for perusal.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2902. Re: [DAWG-HSMM] Planning document?

Yahoo group: DAWG-HSMM
Date: 2014-03-28 20:16:13 UTC
From: Floyd Rodgers
Topic: 2868 Message: 2902

Is anyone aware of any projects on the south side of Dallas?

2903. RE: [DAWG-HSMM] Planning document?

Yahoo group: DAWG-HSMM
Date: 2014-03-29 01:02:45 UTC
From: Jim
Topic: 2868 Message: 2903

Or along the Western part of Tarrant County?

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com] On Behalf Of Floyd Rodgers
Sent: Friday, March 28, 2014 3:16 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] Planning document?

Is anyone aware of any projects on the south side of Dallas?

2904. WRT54GSV4 ?

Yahoo group: DAWG-HSMM
Date: 2014-03-30 22:11:50 UTC
From: <ke5ubf@...>
Topic: 2904 Message: 2904

Hey all, just came from the Belton Ham Expo in Belton Texas where I picked up a WRT54GSV4 router. I brought it home, verified it was "stock" and then proceeded to move on to upgrading. The only file I could see on the Broadband-Hamnet website to use is the same one for the earlier versions and models - bbhn-1.0.0-wrt54g.bin.

This software gets about 6 to 8 bars in the upgrade process and fails out.

I'm not able to determine why it's failing, but I'm also wondering if I'm using the wrong firmware.

Please advise.

Thanks,
-Lee, KE5UBF
Bedford, Texas

2905. Re: [DAWG-HSMM] WRT54GSV4 ?

Yahoo group: DAWG-HSMM
Date: 2014-03-30 23:57:59 UTC
From: Dallas KD4HNX
Topic: 2904 Message: 2905

Lee,
When you get to the download page you need to use the on page scroll bar and scroll down to the one that says firmware for a non-mesh wrt54gs_v4 in the right hand column...
Should be the 11th item listed...

Let us know if this works...

73 Dallas, KD4HNX
http://www.austinhams.com
http://www.arrlstx.org

No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!

From: "ke5ubf@..." <ke5ubf@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Sunday, March 30, 2014 5:11 PM
Subject: [DAWG-HSMM] WRT54GSV4 ?

Hey all, just came from the Belton Ham Expo in Belton Texas where I picked up a WRT54GSV4 router. I brought it home, verified it was "stock" and then proceeded to move on to upgrading. The only file I could see on the Broadband-Hamnet website to use is the same one for the earlier versions and models - bbhn-1.0.0-wrt54g.bin.

This software gets about 6 to 8 bars in the upgrade process and fails out.

I'm not able to determine why it's failing, but I'm also wondering if I'm using the wrong firmware.

Please advise.

Thanks,
-Lee, KE5UBF
Bedford, Texas

2906. Re: [DAWG-HSMM] WRT54GSV4 ?

Yahoo group: DAWG-HSMM
Date: 2014-03-31 00:46:41 UTC
From: Rusty Haddock
Topic: 2904 Message: 2906

ke5ubf@... wrote:
>Hey all, just came from the Belton Ham Expo in Belton Texas where
>I picked up a WRT54GSV4 router. I brought it home, verified it was
>"stock" and then proceeded to move on to upgrading. The only file
>I could see on the Broadband-Hamnet website to use is the same one
>for the earlier versions and models - bbhn-1.0.0-wrt54g.bin.

Look a little harder and you'll see one for a wrt54gs. Yes, the version 4
has the memory of a G or GL but it should work.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2907. Re: [DAWG-HSMM] WRT54GSV4 ?

Yahoo group: DAWG-HSMM
Date: 2014-03-31 03:04:50 UTC
From: Erick
Topic: 2904 Message: 2907

Any experience with flashing green power light?

Sent from my iPhone

> On Mar 30, 2014, at 7:46 PM, Rusty Haddock <rusty@...> wrote:
>
> ke5ubf@... wrote:
> >Hey all, just came from the Belton Ham Expo in Belton Texas where
> >I picked up a WRT54GSV4 router. I brought it home, verified it was
> >"stock" and then proceeded to move on to upgrading. The only file
> >I could see on the Broadband-Hamnet website to use is the same one
> >for the earlier versions and models - bbhn-1.0.0-wrt54g.bin.
>
> Look a little harder and you'll see one for a wrt54gs. Yes, the version 4
> has the memory of a G or GL but it should work.
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>

2908. Re: [DAWG-HSMM] WRT54GSV4 ?

Yahoo group: DAWG-HSMM
Date: 2014-03-31 03:54:32 UTC
From: Rusty Haddock
Topic: 2904 Message: 2908

Erick wrote:
>Any experience with flashing green power light?

Yup. If the LAN LEDs all came on shortly after power up and then went
out you may have a chance. Either way you may wish to read the article
about Failsafe Mode:

http://www.broadband-hamnet.org/documentation/71-using-safe-mode-to-reset-a-forgotten-pass
word.html

If that works then you should be able to get your router into a usable
state and try another reload.

If that doesn't work then try the TFTP method described here:

http://www.broadband-hamnet.org/documentation/72-installing-firmware-with-tftp.html

Notice that the download area has a TFTP.EXE program for Windows, if
that's your poison of choice.

If all that doesn't work then recovery will probably require a JTAG
interface and a bit of time.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2909. Fwd: Woot Daily Digest - Wireless IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-03-31 14:47:40 UTC
From: Douglas Kilgore
Topic: 2909 Message: 2909

An interesting camera. Will it work over HSMM?

Doug KD5OUG

-------- Original Message --------
Subject: Woot Daily Digest
Date: Mon, 31 Mar 2014 06:12:25 +0000
From: Woot <no-reply@...>
Reply-To: Woot <no-reply@...>
To: <kilgore1317@...>

Tech.Woot
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=088b4990b1&e=e8f60af303>
unsubscribe
<http://woot.us1.list-manage.com/unsubscribe?u=e6217fba00b9cdcae52e4e72e&id=c5ca76da11&e=e8f60af303&c=e81fb614cc>

Foscam Wireless Pan/Tilt IP Camera
<http://woot.us1.list-manage2.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=dba7d662a9&e=e8f60af303>

$64.99

$99.99 35% off List Price
Take it from us, this camera is great for spying on customers!
tell me more!
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=ec5a5eacb7&e=e8f60af303>

Tech.Woot
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=8adb0dea2f&e=e8f60af303>
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=cffaea690a&e=e8f60af303>

Mortimer

So, um, "larceny" is a bad thing, correct?

I am terminating this conversation right now.

Monte

Woot
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=0bd6e6efc0&e=e8f60af303>

Klipsch S4i Rugged In-Ear Headphones
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=5d16454e1a&e=e8f60af303>

Klipsch S4i Rugged In-Ear Headphones
$34.99
<http://woot.us1.list-manage1.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=745d9b57eb&e=e8f60af303>

Accessories & Watches
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=dcb9214829&e=e8f60af303>

TW Steel Watches
<http://woot.us1.list-manage1.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=849c0514e6&e=e8f60af303>

TW Steel Watches
$149.99
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=75ba0a4c44&e=e8f60af303>

Home.Woot
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=253156d894&e=e8f60af303>

Rug Doctor X3 w/Upholstery Tool & 48oz.Oxy Cleaner
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=124ee0956f&e=e8f60af303>

Rug Doctor X3 w/Upholstery Tool & 48oz.Oxy Cleaner
$299.99
<http://woot.us1.list-manage1.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=ee56404923&e=e8f60af303>

Tools & Garden
<http://woot.us1.list-manage2.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=7bbb2a057e&e=e8f60af303>

Weber Q 300 Propane Gas Grill
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=0c15133b1b&e=e8f60af303>

Weber Q 300 Propane Gas Grill
$299.99
<http://woot.us1.list-manage2.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=7dbd0827f7&e=e8f60af303>

Sport.Woot
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=91193968c2&e=e8f60af303>

Teva Men's Clifton Creek Shoe
<http://woot.us1.list-manage2.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=95aeb1a037&e=

e8f60af303>

Teva Men's Clifton Creek Shoe
$29.99
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=666c8c847f&e=e8f60af303>

Kids.Woot
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=5b3caf1e53&e=e8f60af303>

Kalencom Monique Diaper Bag - 5 Colors
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=2415e00df0&e=e8f60af303>

Kalencom Monique Diaper Bag - 5 Colors
$27.99
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=8e95359bc1&e=e8f60af303>

Shirt.Woot
<http://woot.us1.list-manage1.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=53657244f1&e=e8f60af303>

Still Fresh
<http://woot.us1.list-manage1.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=19d491db61&e=e8f60af303>

Still Fresh
$12 + free shipping
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=6c0ef694a4&e=e8f60af303>

Wine.Woot
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=e48d0383a1&e=e8f60af303>

Pavi Napa Valley Dolcetto (5)
<http://woot.us1.list-manage1.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=d0bd2e30cb&e=e8f60af303>

Pavi Napa Valley Dolcetto (5)
$69.99
<http://woot.us1.list-manage2.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=c063fce844&e=e8f60af303>

Sellout.Woot
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=6337d550b1&e=e8f60af303>

Kindle Fire HD 8.9" 32GB Tablet
<http://woot.us1.list-manage2.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=454d4057b1&e=e8f60af303>

Kindle Fire HD 8.9" 32GB Tablet
$179.99
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=e7517c0380&e=e8f60af303>

deals.woot!
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=4f84a5cde6&e=e8f60af303>

Manage my newsletter and account settings
<http://woot.us1.list-manage.com/track/click?u=e6217fba00b9cdcae52e4e72e&id=f699aa72b1&e=e8f60af303>
or unsubscribe
<http://woot.us1.list-manage.com/unsubscribe?u=e6217fba00b9cdcae52e4e72e&id=c5ca76da11&e=e8f60af303&c=e81fb614cc>
from future daily digests.
Woot, Inc. | 4121 International Parkway | Carrollton, Texas 75007

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2910. Re: [DAWG-HSMM] Fwd: Woot Daily Digest - Wireless IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-03-31 17:34:51 UTC
From: Bill Vodall
Topic: 2909 Message: 2910

> An interesting camera. Will it work over HSMM?

TCP is TCP - so it should work.

Cheaper at amazon:

http://www.amazon.com/Foscam-FI8918W-Wireless-Network-Viewing/dp/tech-data/B00466X9SY/ref=de_a_smtd

It also appears to have a wired Ethernet jack which is a good thing.

Bill, WA7NWP

2911. RE: [DAWG-HSMM] Fwd: Woot Daily Digest - Wireless IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-03-31 17:56:48 UTC
From: Brady Pamplin
Topic: 2909 Message: 2911

The cheaper Amazon link below is for a different model. Here is the Amazon link for this model.
http://www.amazon.com/Foscam-FI8916W-Wireless-Camera-Housing-/dp/B00937JQK6/ref=sr_1_2?ie=UTF8&qid=1396288081&sr=8-2&keywords=foscam+fi8916w
Check the reviews before you order.

Brady - W5LH

To: DAWG-HSMM@yahoogroups.com
From: wa7nwp@...
Date: Mon, 31 Mar 2014 10:34:51 -0700
Subject: Re: [DAWG-HSMM] Fwd: Woot Daily Digest - Wireless IP Camera

> An interesting camera. Will it work over HSMM?

TCP is TCP - so it should work.

Cheaper at amazon:

http://www.amazon.com/Foscam-FI8918W-Wireless-Network-Viewing/dp/tech-data/B00466X9SY/ref=de_a_smtd

It also appears to have a wired Ethernet jack which is a good thing.

Bill, WA7NWP

2912. Re: [DAWG-HSMM] Fwd: Woot Daily Digest - Wireless IP Camera

Yahoo group: DAWG-HSMM
Date: 2014-03-31 18:22:38 UTC
From: Bill Vodall
Topic: 2909 Message: 2912

> The cheaper Amazon link below is for a different model. Here is the Amazon link for this model.
> http://www.amazon.com/Foscam-FI8916W-Wireless-Camera-Housing-/dp/B00937JQK6/ref=sr_1_2?ie=UTF8&qid=1396288081&sr=8-2&keywords=foscam+fi8916w
> Check the reviews before you order.
>
> Brady - W5LH

Right you are. The '16W' has N wifi where the cheaper '18W' I posted doesn't. Some other small differences. I'm seriously tempted to get one of them and the N vs non-N is making for an interesting choice. Probably go with the N as I need that kind of performance on a little networking experiment I'm working on this year.

Bill

2913. Re: [DAWG-HSMM] WRT54GSV4 ?

Yahoo group: DAWG-HSMM
Date: 2014-04-01 02:25:18 UTC
From: Lee Cumbie
Topic: 2904 Message: 2913

Thanks... will try looking further tomorrow.

Lee
On Mar 30, 2014 10:54 PM, "Rusty Haddock" <rusty@...> wrote:

>
>
> Erick wrote:
> >Any experience with flashing green power light?
>
> Yup. If the LAN LEDs all came on shortly after power up and then went
> out you may have a chance. Either way you may wish to read the article
> about Failsafe Mode:
>
>
> http://www.broadband-hamnet.org/documentation/71-using-safe-mode-to-reset-a-forgotten-pa
ssword.html
>
> If that works then you should be able to get your router into a usable
> state and try another reload.
>
> If that doesn't work then try the TFTP method described here:
>
>
> http://www.broadband-hamnet.org/documentation/72-installing-firmware-with-tftp.html
>
> Notice that the download area has a TFTP.EXE program for Windows, if
> that's your poison of choice.
>
> If all that doesn't work then recovery will probably require a JTAG
> interface and a bit of time.
>
> -Rusty-
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>
>

2914. WRT1900AC?

Yahoo group: DAWG-HSMM
Date: 2014-04-02 18:56:55 UTC
From: Lawrence Landis
Topic: 2914 Message: 2914

Hi,

I just recieved an announcement from Linksys/Cisco about
the WRT1900AC. Somewhat expensive, but claims to be
written to use OpenWRT.... So, does that mean it is likely a
good candidate for BBHN?

Cheers,
--ldl
--

NOTE: If it is important CALL ME - I may miss email,
which I do NOT normally check on weekends nor on
a regular basis during any other day.

LD Landis - N0YRQ-1 - de la tierra del encanto
3960 Schooner Loop, Las Cruces, NM 88012
o:651-340-4007 / 575-636-2229 c:575-312-3995
N32 21'48.28" W106 46'5.80" DM62OI77UD

2915. Re: [DAWG-HSMM] WRT1900AC?

Yahoo group: DAWG-HSMM
Date: 2014-04-02 19:45:13 UTC
From: chrysostome1@yahoo.com
Topic: 2914 Message: 2915

I think it could be a good candidate but I'm still not quite sure how one will be able to achieve point to point connections using high gain antennas ?
The wrt1900ac has four antennas. Which ones are 5ghz or 2gz ?
Do we need dual band directional antennas or dual band omnidirectional antennas for ptp or ptmp connections ?
How much does a directional dual band antenna cost ?
Do we need a N Female to Y type 4x rp-sma male splitter combiner cable thiat can cost over $80 to combine all 4 antennas source into one ?
In my opinion while this router offers new opportunities for speed and dat transfer, its hardware poses serious obstacles that can cost a lot of dollars to overcome. .

Sent from Yahoo Mail on Android

2916. Fire Chat for Local Communicatioins

Yahoo group: DAWG-HSMM
Date: 2014-04-04 04:38:44 UTC
From: Douglas Kilgore
Topic: 2916 Message: 2916

Here's something you meshers may find interesting:

https://www.yahoo.com/tech/firechat-network-free-chat-could-be-big-and-now-its-81597433839.html

It mentiones that5 the company also does mesh networking.

Doug

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2918. Denton node

Yahoo group: DAWG-HSMM
Date: 2014-04-08 11:54:08 UTC
From: <kenthasi@...>
Topic: 2918 Message: 2918

For those in the Denton area. A Ubiquiti node has been deployed near downtown Denton at 250' high. Some testing was done yesterday and the results look quite promising.

2919. Camera problem

Yahoo group: DAWG-HSMM
Date: 2014-04-08 14:38:57 UTC
From: w0uo
Topic: 2919 Message: 2919

DAWG

I have a Sony SNC-RZ30 series camera set up on a mesh node/access point combination and can get to the camera via Firefox but cannot reach the controls. The camera asks for either the Java Applet Viewer or Server Push Viewer. When I click on the Java Applet Viewer I am blocked. (The only information I can find on the Server Push Viewer is that it works in Netscape only.) I cannot determine if I am being blocked by the windows firewall, the browser, or my antivirus programs. BTW I cannot reach the camera at all with Internet Explorer. I get the same results with my XP machine and with my Windows 8.1 machine. Any suggestions on means to overcome this problem will certainly be welcome. I hope to use this equipment for a demonstration at the Ride for the Heroes bike race in Aledo on April 19. If you think of if, please copy me direct as I receive only periodic recaps of messages.

Jim Spaulding W0UO

2920. Re: Camera problem

Yahoo group: DAWG-HSMM
Date: 2014-04-08 23:25:58 UTC
From: <crcasey934@...>
Topic: 2919 Message: 2920

In IE open your camera's web page. Go to the PAGE menu drop down and select...
Compatibility View settings.
When the tab opens up check both boxes at the bottom of the page and apply it.

Try loading your page again.

A lot of older web apps and active plug ins hang in the new IE without this turned on.

My home security DVR is like that.

-Cecil
AA5CE

2921. Re: [DAWG-HSMM] Denton node

Yahoo group: DAWG-HSMM
Date: 2014-04-09 00:36:44 UTC
From: David Chenault
Topic: 2918 Message: 2921

I'm in east Texas looking at a similar installation (although much smaller town!). I'm curious to the details of your install and test results. Which model did you use and how "promising" are the results?

Thanks!
David
W5CWT
On Apr 8, 2014 6:54 AM, <kenthasi@...> wrote:

>
>
> For those in the Denton area. A Ubiquiti node has been deployed near
> downtown Denton at 250' high. Some testing was done yesterday and the
> results look quite promising.
>
>

2922. Re: [DAWG-HSMM] Denton node

Yahoo group: DAWG-HSMM
Date: 2014-04-09 19:01:46 UTC
From: <kenthasi@...>
Topic: 2918 Message: 2922

The node is a Ubiquiti Bullet M2HP with Terrawave 15dbi omni at 250' up. Using another bullet and 12dbi Omni on a push up pole, connections in the 2-3 miles were made. CQQ was a steady 85%. While not definitive, this indicates a relatively solid connection. More testing will be done in the near future for packet loss, throughput, etc. It started to rain during the testing and things were called off.

2923. Re: [DAWG-HSMM] Denton node

Yahoo group: DAWG-HSMM
Date: 2014-04-09 19:28:15 UTC
From: David Chenault
Topic: 2918 Message: 2923

Thanks! Great information!!

On Wed, Apr 9, 2014 at 2:01 PM, <kenthasi@gmail.com> wrote:

>
>
> The node is a Ubiquiti Bullet M2HP with Terrawave 15dbi omni at 250' up.
> Using another bullet and 12dbi Omni on a push up pole, connections in the
> 2-3 miles were made. CQQ was a steady 85%. While not definitive, this
> indicates a relatively solid connection. More testing will be done in the
> near future for packet loss, throughput, etc. It started to rain during the
> testing and things were called off.
>
>

2924. Re: [DAWG-HSMM] Denton node

Yahoo group: DAWG-HSMM
Date: 2014-04-09 19:51:53 UTC
From: Bill Vodall
Topic: 2918 Message: 2924

The node is a Ubiquiti Bullet M2HP with Terrawave 15dbi omni at 250' up.
> Using another bullet and 12dbi Omni on a push up pole, connections in the
> 2-3 miles were made. CQQ was a steady 85%. While not definitive, this
> indicates a relatively solid connection. More testing will be done in the
> near future for packet loss, throughput, etc.
>

FWIW on testing...

The next time I get back to my M2HP I'm going to turn on SNMP and point a MRTG server at it. That gives the charts below which are an indicator of just how well it's working. Note the peak on the weekly chart and the 892kB/s Maximum figure. That's the result of a SFTP transfer of 21 GB of youtube videos - which made a reference I'll be able to test against the next time I'm working on the wireless systems - like when I start using the bullet. These charts came from a WRT54GS with SNMP running. The extra memory of the 8 MB WRT54GS made it possible to easily install SNMP.

More good info and some charts to compare against are available at VillageTelco.

http://wiki.villagetelco.org/Testing_Data_Transfer_Rates_on_a_Mesh

73
Bill, WA7NWP

`Daily' Graph (5 Minute Average)[image: day]MaxAverageCurrentIn762.0 B/s (0.1%)629.0 B/s (0.1%)618.0 B/s (0.0%)Out1489.0 B/s (0.1%)1464.0 B/s (0.1%)1474.0
B/s (0.1%)
`Weekly' Graph (30 Minute Average)[image: week]MaxAverageCurrentIn893.2 kB/s (71.5%)18.9 kB/s (1.5%)581.0 B/s (0.0%)Out44.6 kB/s (3.6%)2382.0 B/s (0.2%)1439.0 B/s (0.1%)

2925. NRH node

Yahoo group: DAWG-HSMM
Date: 2014-04-16 17:01:41 UTC
From: <n5xhi@...>
Topic: 2925 Message: 2925

I am about to install a node on my tower, but I need to know what type of CAT5 cable to purchase and where to find it? I will only need 50'.with RJ45's on each end.
Thanks,
Jeff N5XHI

2926. Re: NRH node

Yahoo group: DAWG-HSMM
Date: 2014-04-16 18:15:55 UTC
From: <kf5saq@...>
Topic: 2925 Message: 2926

Are you considering plenum rated CAT-6 for outdoor use and shielding? Is there an available grounded conduit for data cable runs? How does one ground a WRT up on a tower to reduce interference, ground loops, etc? 73, Ron kf5saq

2927. Re: [DAWG-HSMM] Re: NRH node

Yahoo group: DAWG-HSMM
Date: 2014-04-16 20:16:47 UTC
From: Rusty Haddock
Topic: 2925 Message: 2927

kf5saq@... wrote:

>Are you considering plenum rated CAT-6 for outdoor use and shielding?

Why would you want/need plenum rated cable for outdoor use? :)
I'd probably go for the shielded twisted pair though.

>How does one ground a WRT up on a tower to reduce interference,
>ground loops, etc? 73, Ron kf5saq

O-ring terminal connector around one of the antenna connectors with
wire to the tower or the box's (for your WRT54G) ground system.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2928. Re: [DAWG-HSMM] Re: NRH node

Yahoo group: DAWG-HSMM
Date: 2014-04-16 20:41:53 UTC
From: <kf5saq@...>
Topic: 2925 Message: 2928

Outdoor cable is frequently also plenum rated. More shops know about plenum rating than the equivalent wording as outdoor, so I just go with the flow - whatever. Shielded twisted pair would be recommended to help it operature during storms, interference, better humidity block; not that propagation will be good in such weather. I recommend conduit not so much for shielding but to provide a barrier to squirrels, etc which like to chew the jacket off. For temporary usage most anything works.

73, Ron kf5saq

2929. Re: [DAWG-HSMM] Re: NRH node

Yahoo group: DAWG-HSMM
Date: 2014-04-16 20:48:14 UTC
From: Dallas KD4HNX
Topic: 2925 Message: 2929

I don't know how good plenum rated Cat5/6 cable is but LMR-400 plenum rated cable at 4-6 bucks per foot turns to crap in TX sun... Outer jacket splits and falls off... The cable lasted less than 5 years...

73 Dallas, KD4HNX
http://www.austinhams.com
http://www.arrlstx.org

No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!

From: "kf5saq@..." <kf5saq@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Wednesday, April 16, 2014 3:41 PM
Subject: Re: [DAWG-HSMM] Re: NRH node

Outdoor cable is frequently also plenum rated. More shops know about plenum rating than the equivalent wording as outdoor, so I just go with the flow - whatever. Shielded twisted pair would be recommended to help it operature during storms, interference, better humidity block; not that propagation will be good in such weather. I recommend conduit not so much for shielding but to provide a barrier to squirrels, etc which like to chew the jacket off. For temporary usage most anything works.

73, Ron kf5saq

2930. Re: [DAWG-HSMM] NRH node

Yahoo group: DAWG-HSMM
Date: 2014-04-16 20:51:37 UTC
From: Michael Griego
Topic: 2925 Message: 2930

Generally speaking, if you’re looking for a long-term outdoor deployment, you probably want to use the real UV-rated and gel-filled (also called “flooded”) cable. Something like this: https://www.tessco.com/products/displayProductInfo.do?sku=393655

—Mike

On Apr 16, 2014, at 3:48 PM, Dallas KD4HNX <mylastname@...> wrote:

>
> I don't know how good plenum rated Cat5/6 cable is but LMR-400 plenum rated cable at 4-6 bucks per foot turns to crap in TX sun... Outer jacket splits and falls off... The cable lasted less than 5 years...
>
> 73 Dallas, KD4HNX
> http://www.austinhams.com
> http://www.arrlstx.org
>
> No politician or scholar assured your freedoms.
> A Soldier, Sailor, Marine, or Airman did!
> From: "kf5saq@arrl.net" <kf5saq@...>
> To: DAWG-HSMM@yahoogroups.com
> Sent: Wednesday, April 16, 2014 3:41 PM
> Subject: Re: [DAWG-HSMM] Re: NRH node
>
>
> Outdoor cable is frequently also plenum rated. More shops know about plenum rating than the equivalent wording as outdoor, so I just go with the flow - whatever. Shielded twisted pair would be recommended to help it operature during storms, interference, better humidity block; not that propagation will be good in such weather. I recommend conduit not so much for shielding but to provide a barrier to squirrels, etc which like to chew the jacket off. For temporary usage most anything works.
>
> 73, Ron kf5saq
>
>
>
>

2931. Re: [DAWG-HSMM] NRH node

Yahoo group: DAWG-HSMM
Date: 2014-04-16 21:28:03 UTC
From: Rusty Haddock
Topic: 2925 Message: 2931

Michael Griego wrote:

>Generally speaking, if you?re looking for a long-term outdoor
>deployment, you probably want to use the real UV-rated and
>gel-filled (also called ?flooded?) cable. Something like this:
>https://www.tessco.com/products/displayProductInfo.do?sku=393655

Mike, I've heard that the gel-filled cable is messy to work with.
Does it need a different type of crimper for the ends?

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2932. Fwd: How to Avoid Mistakes in 802.11ac & SDN

Yahoo group: DAWG-HSMM
Date: 2014-04-16 22:04:41 UTC
From: Douglas Kilgore
Topic: 2932 Message: 2932

-------- Original Message --------
Subject: How to Avoid Mistakes in 802.11ac & SDN
Date: 16 Apr 2014 14:40:58 -0400
From: InformationWeek <InformationWeek@...>
Reply-To: InformationWeek <csr4_OnlineEvents@...>
To: kilgore1317@...

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/*802.11ac & SDN : How to Avoid Mistakes*/

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2014 is proving to be a year of incredible opportunity in the mobility and wireless LAN market, with the deployment of 802.11ac, or gigabit Wi-Fi, hitting the mainstream. In addition, new developments such as the Internet of Things (IoT) and software-defined networking (SDN) will fundamentally change the way we approach developing and deploying those networks, at the same time transforming how IT is purchased, deployed, integrated and managed.

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Executive Director,
Open Networking Foundation

System Requirements and Technical Support
<http://event.on24.com/view/help/ehelp.html?elq=cb75eec19bea4918858ee8e821fcd405&elqCampaignId=2287>

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*You are subscribed as kilgore1317@...

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http://www.avast.com

2933. Re: [DAWG-HSMM] NRH node

Yahoo group: DAWG-HSMM
Date: 2014-04-16 22:17:10 UTC
From: Michael Griego
Topic: 2925 Message: 2933

You don't have to crimp it. You can terminate it into a cat5/6 jack inside the enclosure and use a short patch cable to connect the gear. That being said, when you cut the jacket back to crimp the cable, yeah, it's messy, but you can wipe the gel off the individual wires before crimping with a standard crimper.

--Mike

> On Apr 16, 2014, at 16:28, Rusty Haddock <rusty@fe2o3.lonestar.org> wrote:
>
> Michael Griego wrote:
>
> >Generally speaking, if you?re looking for a long-term outdoor
> >deployment, you probably want to use the real UV-rated and
> >gel-filled (also called ?flooded?) cable. Something like this:
> >https://www.tessco.com/products/displayProductInfo.do?sku=393655
>
> Mike, I've heard that the gel-filled cable is messy to work with.
> Does it need a different type of crimper for the ends?
>
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area
> |/__V__/ Math illiteracy affects 7 out of 5 people!
>

2934. Re: [DAWG-HSMM] NRH node

Yahoo group: DAWG-HSMM
Date: 2014-04-17 00:28:45 UTC
From: w2ttt@att.net
Topic: 2925 Message: 2934

Rusty andMike,
We've used some UV resistant cable around here that was not flooded and could use the normal crimper I think.

73,
Gordon, W2TTT
201.314.6964

Sent from Samsung tablet

-------- Original message --------
From: Rusty Haddock <rusty@fe2o3.lonestar.org>
Date: 2014/04/16 17:28 (GMT-05:00)
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] NRH node

Michael Griego wrote:

>Generally speaking, if you?re looking for a long-term outdoor
>deployment, you probably want to use the real UV-rated and
>gel-filled (also called ?flooded?) cable. Something like this:
>https://www.tessco.com/products/displayProductInfo.do?sku=393655

Mike, I've heard that the gel-filled cable is messy to work with.
Does it need a different type of crimper for the ends?

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2935. Re: [DAWG-HSMM] Re: NRH node

Yahoo group: DAWG-HSMM
Date: 2014-04-17 00:51:28 UTC
From: kevin asato
Topic: 2925 Message: 2935

The conduit is to deter the furry critters from eating through the outer jacket and shield. You should probably plan on working with metal conduit, versus plastic, as it will last much longer in harsh environments. Also offers protection from direct sun and rain exposure. Beats working with flooded cable and getting icky pick or gorilla snot all over your hands! When working with the shield, you should use good quality plugs and jacks that incorporate the sheild, at least at one end of the cable run. I have used these in MTSOs and COs with no problem.
73,
kevin
kc6pob

I
don't know how good plenum rated Cat5/6 cable is but
LMR-400 plenum rated cable at 4-6 bucks per foot turns to
crap in TX sun... Outer jacket splits and falls off...
 The cable lasted less than 5 years...
  73
Dallas, KD4HNX
http://www.austinhams.com
http://www.arrlstx.org

No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!

From:
"kf5saq@..." <kf5saq@...>
To:
DAWG-HSMM@yahoogroups.com
Sent:
Wednesday, April 16, 2014 3:41 PM
Subject: Re:
[DAWG-HSMM] Re: NRH node

Outdoor
cable is frequently also plenum rated. More shops
know about plenum
rating than the equivalent wording as outdoor, so I just go
with the
flow - whatever. Shielded twisted pair would be
recommended to help it operature
during storms, interference, better humidity block; not that
propagation
will be good in such weather. I recommend conduit not
so much
for shielding but to provide a barrier to squirrels, etc
which like to

chew the jacket off. For temporary usage most anything
works.
 73, Ron
kf5saq

2936. Re: [DAWG-HSMM] Re: NRH node

Yahoo group: DAWG-HSMM
Date: 2014-04-17 01:55:51 UTC
From: zaphod
Topic: 2925 Message: 2936

Plenum rated is for fire out gassing not for UV exposure.

Erick

From: kevin asato <kc6pob@...>
To: DAWG-HSMM@yahoogroups.com
Sent: Wednesday, April 16, 2014 7:51 PM
Subject: Re: [DAWG-HSMM] Re: NRH node

The conduit is to deter the furry critters from eating through the outer jacket and shield. You should probably plan on working with metal conduit, versus plastic, as it will last much longer in harsh environments. Also offers protection from direct sun and rain exposure. Beats working with flooded cable and getting icky pick or gorilla snot all over your hands! When working with the shield, you should use good quality plugs and jacks that incorporate the sheild, at least at one end of the cable run. I have used these in MTSOs and COs with no problem.
73,
kevin
kc6pob

I
don't know how good plenum rated Cat5/6 cable is but
LMR-400 plenum rated cable at 4-6 bucks per foot turns to
crap in TX sun... Outer jacket splits and falls off...
 The cable lasted less than 5 years...
  73
Dallas, KD4HNX
http://www.austinhams.com
http://www.arrlstx.org

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From:
"kf5saq@..." <kf5saq@...>
To:
DAWG-HSMM@yahoogroups.com
Sent:
Wednesday, April 16, 2014 3:41 PM
Subject: Re:
[DAWG-HSMM] Re: NRH node

Outdoor
cable is frequently also plenum rated. More shops
know about plenum
rating than the equivalent wording as outdoor, so I just go

with the
flow - whatever. Shielded twisted pair would be
recommended to help it operature
during storms, interference, better humidity block; not that
propagation
will be good in such weather. I recommend conduit not
so much
for shielding but to provide a barrier to squirrels, etc
which like to
chew the jacket off. For temporary usage most anything
works.
 73, Ron
kf5saq

2937. Re: [DAWG-HSMM] Re: NRH node

Yahoo group: DAWG-HSMM
Date: 2014-04-17 02:08:37 UTC
From: Brian D Heaton
Topic: 2925 Message: 2937

Have you done an RF survey from the proposed mounting location?
Depending on what else you've got on the tower, you may well need a
channel filter on the node to keep the front end clean.

73-KY9K/Brian

On 4/16/2014 21:55, zaphod wrote:
> Plenum rated is for fire out gassing not for UV exposure.
>
> Erick
>
> ---
> *From:* kevin asato <kc6pob@...>
> *To:* DAWG-HSMM@yahoogroups.com
> *Sent:* Wednesday, April 16, 2014 7:51 PM
> *Subject:* Re: [DAWG-HSMM] Re: NRH node
>
> The conduit is to deter the furry critters from eating through the
> outer jacket and shield. You should probably plan on working with
> metal conduit, versus plastic, as it will last much longer in harsh
> environments. Also offers protection from direct sun and rain
> exposure. Beats working with flooded cable and getting icky pick or
> gorilla snot all over your hands! When working with the shield, you
> should use good quality plugs and jacks that incorporate the sheild,
> at least at one end of the cable run. I have used these in MTSOs and
> COs with no problem.
> 73,
> kevin
> kc6pob
>
> I
> don't know how good plenum rated Cat5/6 cable is but
> LMR-400 plenum rated cable at 4-6 bucks per foot turns to
> crap in TX sun... Outer jacket splits and falls off...
> The cable lasted less than 5 years...
> 73
> Dallas, KD4HNX
> http://www.austinhams.com
> http://www.arrlstx.org
>
> No politician or scholar assured your freedoms.
> A Soldier, Sailor, Marine, or Airman did!
>
> From:
> "kf5saq@..." <kf5saq@...>

> To:
> DAWG-HSMM@yahoogroups.com
> Sent:
> Wednesday, April 16, 2014 3:41 PM
> Subject: Re:
> [DAWG-HSMM] Re: NRH node
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>
> Outdoor
> cable is frequently also plenum rated. More shops
> know about plenum
> rating than the equivalent wording as outdoor, so I just go
> with the
> flow - whatever. Shielded twisted pair would be
> recommended to help it operature
> during storms, interference, better humidity block; not that
> propagation
> will be good in such weather. I recommend conduit not
> so much
> for shielding but to provide a barrier to squirrels, etc
> which like to
> chew the jacket off. For temporary usage most anything
> works.
> 73, Ron
> kf5saq
>
>
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2938. Re: DAWG-HSMM

Yahoo group: DAWG-HSMM
Date: 2014-04-17 03:17:45 UTC
From: <n5xhi@...>
Topic: 2925 Message: 2938

I found this company online have anyone used them?
http://www.ebay.com/itm/50-CAT-5E-SHIELDED-BURIAL-WATERPROOF-OUTDOOR-CABLE-UV-/190399346151?pt=US_Ethernet_Cables_RJ_45_8P8C_&hash=item2c54af75e7 http://www.ebay.com/itm/50-CAT-5E-SHIELDED-BURIAL-WATERPROOF-OUTDOOR-CABLE-UV-/190399346151?pt=US_Ethernet_Cables_RJ_45_8P8C_&hash=item2c54af75e7

2939. Re: [DAWG-HSMM] Re: NRH node

Yahoo group: DAWG-HSMM
Date: 2014-04-17 11:02:00 UTC
From: <kenthasi@...>
Topic: 2925 Message: 2939

I have been purchasing mine from cables4sure.com. For the price, I have found the CAT 6 shielded outdoor gel filled with shielded connectors to be great. The cable also has the solid drain wire. They have pre made cables as well as bulk. They will also do custom lengths.

2940. bad firmware update image. . .

Yahoo group: DAWG-HSMM
Date: 2014-04-17 13:08:44 UTC
From: Don Henson
Topic: 2940 Message: 2940

I just made an attempt to flash my recently purchased 'bullet 2hp'. After logging into the factory installed menu and attempting to flash with " bbhn-1.0.1-ar71xx-ubnt-bullet-m-squashfs-factory.bin<http://www.broadband-hamnet.org/download/firmware/ubnt/bbhn-1.0.1-ar71xx-ubnt-bullet-m-squashfs-factory.bin>", I get an error "Bad firmware update image"?

I have downloaded the image a couple of times but there is no corrupted download that I can tell?

How did I break it?

Don
KF5WSM

2941. Re: bad firmware update image. . .

Yahoo group: DAWG-HSMM
Date: 2014-04-17 15:44:31 UTC
From: <kc5dfc@...>
Topic: 2940 Message: 2941

Can you confirm that it is a Bullet M2 HP? I am sure someone on the board will correct me if I am wrong but if it is not an M2 version I think the firmware is not compatible. I have scraped together 8 Bullet M2 HP models in the last week and flashed them with that same firmware with no problems so I can attest the bin is OK.

2942. Re: [DAWG-HSMM] Re: bad firmware update image. . .

Yahoo group: DAWG-HSMM
Date: 2014-04-17 16:20:46 UTC
From: Don Henson
Topic: 2940 Message: 2942

shut, I just saw "Bullet 2hp" and bought it! Is there a Bullet 2HP and a Bullet M2HP? It seems I bought the wrong thing if so. . .

On Thu, Apr 17, 2014 at 10:44 AM, <kc5dfc@...> wrote:

>
>
> Can you confirm that it is a Bullet M2 HP? I am sure someone on the board
> will correct me if I am wrong but if it is not an M2 version I think the
> firmware is not compatible. I have scraped together 8 Bullet M2 HP models
> in the last week and flashed them with that same firmware with no problems
> so I can attest the bin is OK.
>
>

--
Math illiteracy affects 7 out of 5 people

2943. Re: [DAWG-HSMM] Re: bad firmware update image. . .

Yahoo group: DAWG-HSMM
Date: 2014-04-17 17:05:12 UTC
From: <kc5dfc@...>
Topic: 2940 Message: 2943

Yes there is the 2HP and then the M2 HP. I believe the memory isn't enough in the 2HP's for the firmware implementation. Looks like you have a high power access point now! That's what I do with the 2HP's I have on hand so I can wirelessly access the actual mesh nodes.

2944. Re: [DAWG-HSMM] Re: bad firmware update image. . .

Yahoo group: DAWG-HSMM
Date: 2014-04-17 17:08:32 UTC
From: Bill Vodall
Topic: 2940 Message: 2944

> Yes there is the 2HP and then the M2 HP. I believe the memory isn't enough in the 2HP's for the firmware implementation. Looks like you have a high power access point now!

That's a great AP and it has some handy tools. If you do want to use
it for a mesh node and can work with Luci instead of the nice BBHN GUI
- check out our NW mesh group...

Bill, WA7NWP

2945. Re: [DAWG-HSMM] Re: bad firmware update image. . .

Yahoo group: DAWG-HSMM
Date: 2014-04-18 05:26:46 UTC
From: Rusty Haddock
Topic: 2940 Message: 2945

kc5dfc@... wrote:
>Yes there is the 2HP and then the M2 HP. I believe the memory isn't
>enough in the 2HP's for the firmware implementation. Looks like
>you have a high power access point now! That's what I do with the
>2HP's I have on hand so I can wirelessly access the actual mesh nodes.

Your probably right on the memory but my understanding is that the non-M
2 series contains a totally different microprocessor so the software
wouldn't run even if it had enough memory. :-\

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2946. U.S. Promotes Network to Foil Digital Spying

Yahoo group: DAWG-HSMM
Date: 2014-04-28 13:34:38 UTC
From: <n5sqa@...>
Topic: 2946 Message: 2946

ICYMI

http://www.nytimes.com/2014/04/21/us/us-promotes-network-to-foil-digital-spying.html
http://www.nytimes.com/2014/04/21/us/us-promotes-network-to-foil-digital-spying.html?_r=0

Ron

2947. W0UO-1 is on the air

Yahoo group: DAWG-HSMM
Date: 2014-05-02 16:15:20 UTC
From: w0uo
Topic: 2947 Message: 2947

Meshers

I have BBHN W0UO-1 on the air. I am located 100 yards north and 100 yards east of the junction of FM3325 (Farmer Road) and Meadowcrest in eastern Parker County. I have a 19 dbi flat panel pointed roughly at N9BAV, or, if you have a map, just at the point where Highway 199 crosses Lake Worth (east end of the bridge). The other antenna is a 24 dbi barbecue dish pointed just west of the intersection of Interstate 20 and FM3325.

I am interested in any reports of reception.

Jim Spaulding W0UO

2948. Re: [DAWG-HSMM] W0UO-1 is on the air

Yahoo group: DAWG-HSMM
Date: 2014-05-02 16:26:51 UTC
From: Dallas KD4HNX
Topic: 2947 Message: 2948

Cool... I may look you up the next time I visit my in-laws... They live a block from the church where the swapfest are held in Weatherford... I also need to meet AF5BBQ (What a great TX call) he also lives in Weatherford...

73 Dallas, KD4HNX
http://www.austinhams.com
http://www.arrlstx.org

No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!

From: w0uo <w0uo@...>
To: DAWG-HSMM@yahoogroups.com; wc5c@yahoogroups.com
Sent: Friday, May 2, 2014 11:15 AM
Subject: [DAWG-HSMM] W0UO-1 is on the air

Meshers

I have BBHN W0UO-1 on the air. I am located 100 yards north and 100 yards east of the junction of FM3325 (Farmer Road) and Meadowcrest in eastern Parker County. I have a 19 dbi flat panel pointed roughly at N9BAV, or, if you have a map, just at the point where Highway 199 crosses Lake Worth (east end of the bridge). The other antenna is a 24 dbi barbecue dish pointed just west of the intersection of Interstate 20 and FM3325.
I am interested in any reports of reception.

Jim Spaulding W0UO

2949. More on W0UO-1

Yahoo group: DAWG-HSMM
Date: 2014-05-03 13:58:18 UTC
From: w0uo
Topic: 2949 Message: 2949

DAWG:

I should have mentioned that my QTH is on the ridge between Aledo and Azle at 1040 ft, the antenna is at 1090 ft with a clear view to the east and northeast. I have line of sight to Lake Worth (elev about 660 ft) and beyond. This is the path that my former ISP used although with 23 dbm instead of 19 dbm!.

Jim Spaulding W0UO

2950. Yahoo is Messing with Group Email Addresses

Yahoo group: DAWG-HSMM
Date: 2014-05-14 13:09:48 UTC
From: Douglas Kilgore
Topic: 2950 Message: 2950

Yahoo is changing the way it handles email addresses in the From: field.
In some instances, the originator's email address does not appear.

So if you send a message to the Yahoo group, please sign the message
with your name and email address.

Doug Kilgore KD5OUG
kilgore1317@...

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2951. Re: [DAWG-HSMM] Yahoo is Messing with Group Email Addresses

Yahoo group: DAWG-HSMM
Date: 2014-05-14 13:15:55 UTC
From: zaphod
Topic: 2950 Message: 2951

They just cannot leave well alone...I have similar issues with other yahoo groups...now and in the past with changes they have made.

Erick
KG5AEM

From: "Douglas Kilgore kilgore1317@sbcglobal.net [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: WRGroup <WR-Richardson@yahoogroups.com>; RACES Group <RichRACES@yahoogroups.com>; rwk-ntx group <rwk-ntx@yahoogroups.com>; DAWG-HSMM@yahoogroups.com
Sent: Wednesday, May 14, 2014 8:09 AM
Subject: [DAWG-HSMM] Yahoo is Messing with Group Email Addresses

Yahoo is changing the way it handles email addresses in the From: field.
In some instances, the originator's email address does not appear.

So if you send a message to the Yahoo group, please sign the message
with your name and email address.

Doug Kilgore KD5OUG
kilgore1317@sbcglobal.net

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2952. Hams4WildRide Status

Yahoo group: DAWG-HSMM
Date: 2014-05-16 00:23:15 UTC
From: Kilgore
Topic: 2952 Message: 2952

The 2014 Wild Ride Against Cancer will happen Saturday, May 17. The weather forecast is for sunshine. There are many hams providing communications for the event. It will be a great day!

I wish to thank all those who have contributed to the Hams4WildRide fundraising team benefiting the Methodist Richardson Cancer Center. As of 19:00 hrs Thursday we have raised $325.

It's interesting to read the comments of donors.
https://www.crowdrise.com/Hams4WildRide

It's not too late to make a donation to the Hams4WildRide team. Please contact your friends and relatives. Post it on your Facebook or Twitter page. Give them an opportunity to donate to our team.

The processing fee listed is optional. Just click on the description for more info.

Thank you.

Doug Kilgore KD5OUG
Wild Ride Communications Coordinator
kilgore1317@...

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2953. Difference between Bit Rate and Baud Rate

Yahoo group: DAWG-HSMM
Date: 2014-05-21 15:37:18 UTC
From: Douglas Kilgore
Topic: 2953 Message: 2953

Here's a good article explaining the difference between Bit Rate and
Baud Rate in serial communications.

http://electronicdesign.com/communications/what-s-difference-between-bit-rate-and-baud-rat
e

Doug KD5OUG

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2954. Wireless in Plano Makerspace

Yahoo group: DAWG-HSMM
Date: 2014-05-27 18:58:59 UTC
From: Douglas Kilgore
Topic: 2954 Message: 2954

I just became aware of this Makerspace group. They are planning a metro mesh network.

http://www.thelab.ms/wireless-lab/

Doug KD5OUG

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2955. Re: [DAWG-HSMM] Wireless in Plano Makerspace

Yahoo group: DAWG-HSMM
Date: 2014-05-27 19:10:51 UTC
From: zaphod
Topic: 2954 Message: 2955

in seattle?

Erick

From: "Douglas Kilgore kilgore1317@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Tuesday, May 27, 2014 1:58 PM
Subject: [DAWG-HSMM] Wireless in Plano Makerspace

I just became aware of this Makerspace group. They are planning a metro
mesh network.

http://www.thelab.ms/wireless-lab/

Doug KD5OUG

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2956. Re: [DAWG-HSMM] Wireless in Plano Makerspace

Yahoo group: DAWG-HSMM
Date: 2014-05-27 19:25:29 UTC
From: Douglas Kilgore
Topic: 2954 Message: 2956

The link refers to a Makerspace forming in Plano, TX. Read the Home page of that link for more info.

Doug

On 5/27/2014 2:10 PM, zaphod zaphod1@... [DAWG-HSMM] wrote:
>
>
> in seattle?
>
> Erick
>
>
> ----------
> *From:* "Douglas Kilgore kilgore1317@... [DAWG-HSMM]"
> <DAWG-HSMM@yahoogroups.com>
> *To:* DAWG-HSMM@yahoogroups.com
> *Sent:* Tuesday, May 27, 2014 1:58 PM
> *Subject:* [DAWG-HSMM] Wireless in Plano Makerspace
>
> I just became aware of this Makerspace group. They are planning a metro
> mesh network.
>
> http://www.thelab.ms/wireless-lab/
>
> Doug KD5OUG
>
> ---

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2957. Re: [DAWG-HSMM] Wireless in Plano Makerspace

Yahoo group: DAWG-HSMM
Date: 2014-05-27 20:17:18 UTC
From: Dallas KD4HNX
Topic: 2954 Message: 2957

Their MeetUp pages say Plano TX...
http://www.meetup.com/TheLab-ms/events/178066832/

Looks like they may have out grown the Pub and are looking for a site that will sit 50 and have large video screens and such...

73 Dallas, KD4HNX
http://www.austinhams.com
http://www.arrlstx.org

No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!

_____
From: "Douglas Kilgore kilgore1317@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Tuesday, May 27, 2014 2:25 PM
Subject: Re: [DAWG-HSMM] Wireless in Plano Makerspace

The link refers to a Makerspace forming in Plano, TX. Read the Home page of that link for more info.

Doug

On 5/27/2014 2:10 PM, zaphod zaphod1@... [DAWG-HSMM] wrote:

in seattle?
>
>
>Erick
>
>
>
>
>
>_____
> From: "Douglas Kilgore kilgore1317@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
>To: DAWG-HSMM@yahoogroups.com
>Sent: Tuesday, May 27, 2014 1:58 PM
>Subject: [DAWG-HSMM] Wireless in Plano Makerspace
>
>
>
>
>I just became aware of this Makerspace group. They are planning a metro
>mesh network.
>

>http://www.thelab.ms/wireless-lab/
>
>Doug KD5OUG
>
>---
>

This email is free from viruses and malware because avast! Antivirus protection is active.

2958. Re: [DAWG-HSMM] Wireless in Plano Makerspace

Yahoo group: DAWG-HSMM
Date: 2014-05-27 20:39:31 UTC
From: zaphod
Topic: 2954 Message: 2958

I thought they already had one working in plano? Or am I crazy....

I just didnt click on the drop downs...

Erick

_____
From: "Douglas Kilgore kilgore1317@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Tuesday, May 27, 2014 2:25 PM
Subject: Re: [DAWG-HSMM] Wireless in Plano Makerspace

The link refers to a Makerspace forming in Plano, TX. Read the Home page of that link for more info.

Doug

On 5/27/2014 2:10 PM, zaphod zaphod1@... [DAWG-HSMM] wrote:

in seattle?
>
>
>Erick
>
>
>
>
>
>_____
> From: "Douglas Kilgore kilgore1317@...t [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
>To: DAWG-HSMM@yahoogroups.com
>Sent: Tuesday, May 27, 2014 1:58 PM
>Subject: [DAWG-HSMM] Wireless in Plano Makerspace
>
>
>
>
>I just became aware of this Makerspace group. They are planning a metro
>mesh network.
>
>http://www.thelab.ms/wireless-lab/
>
>Doug KD5OUG
>
>---
>

This email is free from viruses and malware because avast! Antivirus protection is active.

2959. Re: [DAWG-HSMM] Wireless in Plano Makerspace

Yahoo group: DAWG-HSMM
Date: 2014-05-27 21:11:02 UTC
From: zaphod
Topic: 2954 Message: 2959

I think I remember some one at the last maker fair saying they were looking for space as they are getting too big.

Erick

_____
From: "Dallas KD4HNX mylastname@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@...m>
Sent: Tuesday, May 27, 2014 3:17 PM
Subject: Re: [DAWG-HSMM] Wireless in Plano Makerspace

Their MeetUp pages say Plano TX...
http://www.meetup.com/TheLab-ms/events/178066832/

Looks like they may have out grown the Pub and are looking for a site that will sit 50 and have large video screens and such...

73 Dallas, KD4HNX
http://www.austinhams.com
http://www.arrlstx.org

No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!

_____
From: "Douglas Kilgore kilgore1317@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Tuesday, May 27, 2014 2:25 PM
Subject: Re: [DAWG-HSMM] Wireless in Plano Makerspace

The link refers to a Makerspace forming in Plano, TX. Read the Home page of that link for more info.

Doug

On 5/27/2014 2:10 PM, zaphod zaphod1@... [DAWG-HSMM] wrote:

in seattle?
>
>
>Erick
>
>
>
>
>
>_____
> From: "Douglas Kilgore kilgore1317@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>

>To: DAWG-HSMM@yahoogroups.com
>Sent: Tuesday, May 27, 2014 1:58 PM
>Subject: [DAWG-HSMM] Wireless in Plano Makerspace
>
>
>
>
>I just became aware of this Makerspace group. They are planning a metro
>mesh network.
>
>http://www.thelab.ms/wireless-lab/
>
>Doug KD5OUG
>
>---
>

This email is free from viruses and malware because avast! Antivirus protection is active.

2960. HamCom sessions

Yahoo group: DAWG-HSMM
Date: 2014-06-11 22:38:43 UTC
From: Rusty Haddock
Topic: 2960 Message: 2960

For those attending Hamcom the published schedule includes the following BBHN-related talks:

Fri 4pm Fairview 1&2 Mesh Workshop Kip Moravec
Sat 11am Fairview 1&2 BBHN Update 2014 Glen Currie
Sat 4pm Shady Grove Introduction to BBHN Kipton Moravec

Have you got questions? Many of the development team will be available for the Mesh Workshop on Friday afternoon. Bring your mesh hardware to play and/or troubleshoot.

See you at the 'fest!

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2961. Re: [DAWG-HSMM] HamCom sessions

Yahoo group: DAWG-HSMM
Date: 2014-06-14 07:45:08 UTC
From: Rusty Haddock
Topic: 2960 Message: 2961

Rusty Haddock rusty@... [DAWG-HSMM] wrote:
>For those attending Hamcom the published schedule includes the following
>BBHN-related talks:
>
> Fri 4pm Fairview 1&2 Mesh Workshop Kip Moravec
> Sat 11am Fairview 1&2 BBHN Update 2014 Glen Currie
> Sat 4pm Shady Grove Introduction to BBHN Kipton Moravec
>
>Have you got questions? Many of the development team will be available
>for the Mesh Workshop on Friday afternoon. Bring your mesh hardware to
>play and/or troubleshoot.
>
>See you at the 'fest!

Serious fustercluck with Hamcom scheduling. Apparently they were
even making more last minute (literally -- Thursday night) shuffling
of classes.

The workshop when off pretty good. Glenn, gave his talk at 10am on
Friday but not many folks showed up. Actually, it was a bit later as it
was about 10am with some of the Austin crew saw his name on the schedule
and ran to pick him up at the hotel. Glenn did a shortened version at
the Workshop though.

Saturday's 11am is now my "Applications and Accessories" and Kip is
doing his Intro at 3pm (not 4 as above -- my typo).

Then again, HamCom could very well change things again before I get
there in the morning. (fail)

Come join us if you're at HamCom!

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2962. Re: [DAWG-HSMM] HamCom sessions

Yahoo group: DAWG-HSMM
Date: 2014-06-14 13:44:04 UTC
From: David Chenault
Topic: 2960 Message: 2962

Enjoyed the workshop. Thanks for all the work you guys have done!

73
W5CWT
On Jun 14, 2014 2:45 AM, "Rusty Haddock rusty@...
[DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com> wrote:

>
>
> Rusty Haddock rusty@... [DAWG-HSMM] wrote:
> >For those attending Hamcom the published schedule includes the following
> >BBHN-related talks:
> >
> > Fri 4pm Fairview 1&2 Mesh Workshop Kip Moravec
> > Sat 11am Fairview 1&2 BBHN Update 2014 Glen Currie
> > Sat 4pm Shady Grove Introduction to BBHN Kipton Moravec
> >
> >Have you got questions? Many of the development team will be available
> >for the Mesh Workshop on Friday afternoon. Bring your mesh hardware to
> >play and/or troubleshoot.
> >
> >See you at the 'fest!
>
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> even making more last minute (literally -- Thursday night) shuffling
> of classes.
>
> The workshop when off pretty good. Glenn, gave his talk at 10am on
> Friday but not many folks showed up. Actually, it was a bit later as it
> was about 10am with some of the Austin crew saw his name on the schedule
> and ran to pick him up at the hotel. Glenn did a shortened version at
> the Workshop though.
>
> Saturday's 11am is now my "Applications and Accessories" and Kip is
> doing his Intro at 3pm (not 4 as above -- my typo).
>
> Then again, HamCom could very well change things again before I get
> there in the morning. (fail)
>
> Come join us if you're at HamCom!
>
> --
> _____ Rusty Haddock <=> AE5AE
> |\/ o \ o Way out yonder in the
> | (-< O o Van Alstyne (TX) Metropolitan Area

```
> |/\__V__/ Math illiteracy affects 7 out of 5 people!
>
>
```

2963. RE: [DAWG-HSMM] HamCom sessions

Yahoo group: DAWG-HSMM
Date: 2014-06-15 12:17:09 UTC
From: Bill Hagebusch
Topic: 2960 Message: 2963
Attachments: 2 described; binary payloads are missing from this source WARC

Sure hope they can schedule a bigger room next time. That tiny little closet for Kip's Intro was pretty claustrophobic. A lot of people peeked in the door and gave up.

73

Bill

KE5XVF

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com]
Sent: Saturday, June 14, 2014 2:45 AM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] HamCom sessions

Rusty Haddock rusty@... [DAWG-HSMM] wrote:
>For those attending Hamcom the published schedule includes the following
>BBHN-related talks:
>
> Fri 4pm Fairview 1&2 Mesh Workshop Kip Moravec
> Sat 11am Fairview 1&2 BBHN Update 2014 Glen Currie
> Sat 4pm Shady Grove Introduction to BBHN Kipton Moravec
>
>Have you got questions? Many of the development team will be available
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>play and/or troubleshoot.
>
>See you at the 'fest!

Serious fustercluck with Hamcom scheduling. Apparently they were even making more last minute (literally -- Thursday night) shuffling of classes.

The workshop when off pretty good. Glenn, gave his talk at 10am on Friday but not many folks showed up. Actually, it was a bit later as it was about 10am with some of the Austin crew saw his name on the schedule and ran to pick him up at the hotel. Glenn did a shortened version at the Workshop though.

Saturday's 11am is now my "Applications and Accessories" and Kip is doing his Intro at 3pm (not 4 as above -- my typo).

Then again, HamCom could very well change things again before I get there in the morning. (fail)

Come join us if you're at HamCom!

```
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2964. Re: [DAWG-HSMM] HamCom sessions

Yahoo group: DAWG-HSMM
Date: 2014-06-15 18:28:07 UTC
From: Rusty Haddock
Topic: 2960 Message: 2964

'Bill Hagebusch' billhagebusch@... [DAWG-HSMM] wrote:
>Sure hope they can schedule a bigger room next time. That tiny little closet
>for Kip's Intro was pretty claustrophobic. A lot of people peeked in the
>door and gave up.

I understand -- I was at the door opening it every so often to let some cool air flow in (all those hams generate a lot of hot air :) but not so much as to keep Kip from being drowned out by the noise from the hallway. Max'd out I counted about 44 occupants with little standing room left. I didn't count but I wouldn't doubt that well over a dozen people peeked in, saw "no room at the inn", and turned around.

The HamCom Board of Directors gave me several excuses for the scheduling snafu. 1) The ARRL's large presence for the Centennial and 2) Hamcom being not only the West Gulf but also the Delta Convention and 3) building security wanted all talks finished by 4pm on Saturday so as to facilitate clearing out the Centre sooner. The last item "killed" at least 6-hr worth of talks. Personally, I found this silly since the prize drawings started at 5pm but...

I will say that it has been discussed that the BBHN group get a block of three hours in one of the large rooms so that we can divie it up as we want. Hopefully HamCom will let us do that next year.

We hope that folks enjoyed our talks and came away with something useful.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2965. Re: [DAWG-HSMM] HamCom sessions

Yahoo group: DAWG-HSMM
Date: 2014-06-16 01:56:13 UTC
From: zaphod
Topic: 2960 Message: 2965

would have liked to see your talk but, could they have chosen a smaller room??? Do you have your talk in a format that I could look over myself?

Thank you,
Erick KG5AEM

_____
From: "Rusty Haddock rusty@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Sunday, June 15, 2014 1:28 PM
Subject: Re: [DAWG-HSMM] HamCom sessions

'Bill Hagebusch' billhagebusch@taxwhys.com [DAWG-HSMM] wrote:
>Sure hope they can schedule a bigger room next time. That tiny little closet
>for Kip's Intro was pretty claustrophobic. A lot of people peeked in the
>door and gave up.

I understand -- I was at the door opening it every so often to let some cool air flow in (all those hams generate a lot of hot air :) but not so much as to keep Kip from being drowned out by the noise from the hallway. Max'd out I counted about 44 occupants with little standing room left. I didn't count but I wouldn't doubt that well over a dozen people peeked in, saw "no room at the inn", and turned around.

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I will say that it has been discussed that the BBHN group get a block of three hours in one of the large rooms so that we can divie it up as we want. Hopefully HamCom will let us do that next year.

We hope that folks enjoyed our talks and came away with something useful.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2966. Re: [DAWG-HSMM] HamCom sessions

Yahoo group: DAWG-HSMM
Date: 2014-06-16 03:59:15 UTC
From: Rusty Haddock
Topic: 2960 Message: 2966

zaphod zaphod1@... [DAWG-HSMM] wrote:
>would have liked to see your talk but, could they have chosen a smaller room???
>Do you have your talk in a format that I could look over myself?

If you're talking about the Introduction in the Shady Grove, the
room I was standing at the door to, Kip will have to answer if and where
he makes his material available.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2967. Re: [DAWG-HSMM] HamCom sessions

Yahoo group: DAWG-HSMM
Date: 2014-06-16 05:18:45 UTC
From: N5TIM
Topic: 2960 Message: 2967

It has been posted to the files section of the ntxares Yahoo group. John - N5TIM On 6/15/2014 10:59 PM, Rusty Haddock rusty@... [DAWG-HSMM] wrote: > zaphod zaphod1@... [DAWG-HSMM] wrote: > >would have liked to see your talk but, could they have chosen a > smaller room??? > >Do you have your talk in a format that I could look over myself? > > If you're talking about the Introduction in the Shady Grove, the > room I was standing at the door to, Kip will have to answer if and where > he makes his material available. > > -- > _____ Rusty Haddock <=> AE5AE > |\/ o \ o Way out yonder in the > | (-< O o Van Alstyne (TX) Metropolitan Area > |/__V__/ Math illiteracy affects 7 out of 5 people! > > -- Emergency Communications - Are you ready? ========== John Galvin - N5TIM NTX ARES SEC 214.785.1480 (GV) n5tim@... www.n5tim.info http://arrlntx.org/main/ares-menu/ares/ = Emergency Communications - Are you ready? ==========

John Galvin - N5TIM
NTX ARES SEC
214.785.1480 (GV)
n5tim@...
www.n5tim.info
http://arrlntx.org/main/ares-menu/ares/

2968. Re: [DAWG-HSMM] HamCom sessions

Yahoo group: DAWG-HSMM
Date: 2014-06-16 12:00:22 UTC
From: Kipton Moravec
Topic: 2960 Message: 2968

On Sun, 2014-06-15 at 22:59 -0500, Rusty Haddock
rusty@... [DAWG-HSMM] wrote:
> zaphod zaphod1@... [DAWG-HSMM] wrote:
> >would have liked to see your talk but, could they have chosen a smaller room???
> >Do you have your talk in a format that I could look over myself?
>
> If you're talking about the Introduction in the Shady Grove, the
> room I was standing at the door to, Kip will have to answer if and where
> he makes his material available.
>

It will also be in http://www.broadband-hamnet.org/hsmm-files.html
section. I sent it to them Saturday night and I expect it will be loaded
this week.

2969. Fwd: Call for Papers - ARRL/TAPR DCC (Digital Communications Conference), Austin, TX

Yahoo group: DAWG-HSMM
Date: 2014-07-06 18:40:03 UTC
From: Mark Thompson
Topic: 2969 Message: 2969
Attachments: 1 described; binary payloads are missing from this source WARC

Note: More details on DCC Call for Papers are at: http://www.tapr.org/dcc.html#call

Presentations can be made at the DCC if you have not submitted a paper in advance, however those who have submitted a paper get priority in scheduling a presentation at the DCC.

-----Original Message-----
From: Ford, Steve, WB8IMY <sford@...>
To:
Sent: Sun, Jul 6, 2014 12:52 PM
Subject: ARRL/TAPR DCC Call for Papers

July 14 is the deadline to submit papers for the proceedings of 2014 ARRL/TAPR Digital Communications Conference, September 5 – 7, in Austin, Texas.

You do not have to attend the conference to have your paper included in the proceedings. Your paper on any technical topic relevant to amateur digital communications will be published as submitted and you will retain all rights.

Please e-mail your submission no later than July 14 to Maty Weinberg, KB1EIB, ARRL Production Coordinator, at maty@...
Send text files and images separately and do not attach Zip files. Total of attachments cannot exceed 5 Mbytes per message.

You'll note the July 14 deadline. Maty needs the extra day due to the Centennial convention activities.

73 . . . Steve, WB8IMY

2970. New Broadband-Hamnet firmware w/ 5.8-GHz support

Yahoo group: DAWG-HSMM
Date: 2014-07-07 06:28:33 UTC
From: Rusty Haddock
Topic: 2970 Message: 2970

Hot off the presses!!!

July 7 2014
Broadband-Hamnet Greatly Expands its Usefulness, Adds 5.8 GHz Support

Broadband-Hamnet is proud to announce a new firmware release, an update to the original Linksys WRT54G/GL/GS gear, and for the Ubiquiti firmware originally released for the 2.4GHz Ham band this past February.

With this release, Broadband-Hamnet now supports the Ubiquiti M5-series hardware, giving Hams use of the 5.8 GHz band for mesh networking.

Among the release's many new features are the ability to easily connect collocated nodes into clusters and to span the mesh across both ham bands.

To read the Firmware release notes, please visit the 1.1.0 Release Notes (http://www.broadband-hamnet.org/documentation/195-bbhn110-firmware-release)

For our Development Team: Conrad, KG6JEI, and Andre, K6AH...

Jim Kinter, K5KTF
Webmaster
Broadband-Hamnet

--
```
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

2971. RE: Anytime you want to jump in...

Yahoo group: DAWG-HSMM
Date: 2014-07-11 14:49:33 UTC
From: w2ttt1@gmail.com
Topic: 2971 Message: 2971

Andre,
I'll be glad to assist! Do you mean on the bbhn.org web site itself or on this list?
If anyone has questions about the use of the newest releSe of the BBHN code or getting started with BBHN, please drop me a note on your favorite mesh list AND cc me at w2ttt@att.net, as I am glad to help.
73,
Gordon, W2TTT
201.314.6964

Sent from Samsung tablet

-------- Original message --------
From: Andre Hansen <andre.k6ah@gmail.com>
Date: 2014/07/09 21:05 (GMT-05:00)
To: "<bbhn-beta-test@googlegroups.com>" <bbhn-beta-test@googlegroups.com>
Subject: Anytime you want to jump in...

Anytime you beta testers want to jump in to help support the recent release, please feel free to.

Seriously, I'm trying to keep Conrad free enough to work the issues, so I'm kinda working solo here. While I like what it's doing to my post count ;-) I've fallen behind at my paid job, so tomorrow I won't be so available. Any help is appreciated.

Thanks,

Andre
--
You received this message because you are subscribed to the Google Groups "BBHN Beta Test" group.
To unsubscribe from this group and stop receiving emails from it, send an email to bbhn-beta-test+unsubscribe@googlegroups.com.
For more options, visit https://groups.google.com/d/optout.

2972. Re: [DAWG-HSMM] RE: Anytime you want to jump in...

Yahoo group: DAWG-HSMM
Date: 2014-07-11 18:31:43 UTC
From: zaphod
Topic: 2971 Message: 2972

sounds good....just a note...new users to the groups might not know what all the acronyms are.

Let us know,
Erick
KG5AEM

From: "'w2ttt1@...' w2ttt@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: Andre Hansen <andre.k6ah@...>; "<bbhn-beta-test@googlegroups.com>" <bbhn-beta-test@...>
Cc: "w2ttt1@..." <w2ttt1@...>; Gordon Beattie <w2ttt@...>; "comtechgroup@yahoogroups.com" <comtechgroup@yahoogroups.com>; DAWG-HSMM@yahoogroups.com
Sent: Friday, July 11, 2014 9:49 AM
Subject: [DAWG-HSMM] RE: Anytime you want to jump in...

Andre,
I'll be glad to assist! Do you mean on the bbhn.org web site itself or on this list?
If anyone has questions about the use of the newest releSe of the BBHN code or getting started with BBHN, please drop me a note on your favorite mesh list AND cc me at w2ttt@..., as I am glad to help.
73,
Gordon, W2TTT
201.314.6964

Sent from Samsung tablet

-------- Original message --------
From: Andre Hansen <andre.k6ah@...>
Date: 2014/07/09 21:05 (GMT-05:00)
To: "<bbhn-beta-test@googlegroups.com>" <bbhn-beta-test@...>
Subject: Anytime you want to jump in...

Anytime you beta testers want to jump in to help support the recent release, please feel free to.

Seriously, I'm trying to keep Conrad free enough to work the issues, so I'm kinda working solo here. While I like what it's doing to my post count ;-) I've fallen behind at my paid job, so tomorrow I won't be so available. Any help is appreciated.

Thanks,

Andre
--
You received this message because you are subscribed to the Google Groups "BBHN Beta Test" group.
To unsubscribe from this group and stop receiving emails from it, send an email to

bbhn-beta-test+unsubscribe@....
For more options, visit https://groups.google.com/d/optout.

2973. Digital Tuesday, pushed back to July 22

Yahoo group: DAWG-HSMM
Date: 2014-07-13 01:20:12 UTC
From: Kipton Moravec
Topic: 2973 Message: 2973

Too many things going on with Rusty and me to have a Digital Tuesday this week.

So we are going to have it July 22, starting at 6:30 at Dicky's Barbeque in McKinney.

There is a new version of the MESH software that adds some new features and 5.4 GHz Ubiquity devices. The 3.4 GHz and 900 MHz units will follow in the next upgrade.

Kip

2974. Fwd: Last Call for Papers - ARRL/TAPR DCC (Digital Communications Conference), Austin, TX

Yahoo group: DAWG-HSMM
Date: 2014-07-13 17:38:55 UTC
From: Mark Thompson
Topic: 2974 Message: 2974
Attachments: 1 described; binary payloads are missing from this source WARC

Note:
More details on DCC Call for Papers are at: http://www.tapr.org/dcc.html#call

Presentations can be made at the DCC if you have not submitted a paper in advance, however those who have submitted a paper get priority in scheduling a presentation at the DCC.

Presentations made only at the DCC & not included in the proceedings
can be submitted after July 14th and should be made submitted directly to TAPR.

Date: Wed, 2 Jul 2014 14:27:18 +0000
From: "Ford, Steve, WB8IMY" <sford@...>
To:
Subject: Last Call for Digital Communications Conference Papers

July 14 is the deadline to submit papers for the proceedings of
the 2014 ARRL/TAPR Digital Communications Conference http://www.tapr.org/dcc, September 5 - 7, in Austin, Texas.

You do not have to attend the conference to have your paper included in the proceedings. Your paper on any technical topic relevant to amateur digital communications will be published as submitted and you will retain all rights.

Please e-mail your submission no later than July 14 to Maty Weinberg, KB1EIB, ARRL Production Coordinator, at maty@....
Send text files and images separately and do not attach Zip files. Total of attachments cannot exceed 5 Mbytes per message.

2975. WRT54GL-RM on sale

Yahoo group: DAWG-HSMM
Date: 2014-07-16 01:43:07 UTC
From: Douglas Kilgore
Topic: 2975 Message: 2975

Tiger Direct has refurbished Linksys WRT54GL-RM on sale for $29.99.
What is RM model?

Doug KD5OUG

http://www.tigerdirect.com/applications/SearchTools/item-details.asp?EdpNo=8925747

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2976. Re: [DAWG-HSMM] WRT54GL-RM on sale

Yahoo group: DAWG-HSMM
Date: 2014-07-16 02:13:03 UTC
From: N5TIM
Topic: 2975 Message: 2976

$24 at John On 7/15/2014 8:43 PM, Douglas Kilgore kilgore1317@... [DAWG-HSMM] wrote: > > Tiger Direct has refurbished Linksys WRT54GL-RM on sale for $29.99. > What is RM model? > > Doug KD5OUG > > http://www.tigerdirect.com/applications/SearchTools/item-details.asp?EdpNo=8925747 > > --- > This email is free from viruses and malware because avast! Antivirus > protection is active. > http://www.avast.com > > -- Emergency Communications - Are you ready? ========== John Galvin - N5TIM NTX ARES SEC 214.785.1480 (GV) n5tim@... www.n5tim.info http://arrlntx.org/main/ares-menu/ares/ = Emergency Communications - Are you ready?

==========
John Galvin - N5TIM
NTX ARES SEC
214.785.1480 (GV)
n5tim@...
www.n5tim.info
http://arrlntx.org/main/ares-menu/ares/

2977. Re: [DAWG-HSMM] WRT54GL-RM on sale

Yahoo group: DAWG-HSMM
Date: 2014-07-16 16:13:28 UTC
From: zaphod
Topic: 2975 Message: 2977

you would be better off with the ubiquity versions. Erick _____ From: "N5TIM n5tim@... [DAWG-HSMM]" To: DAWG-HSMM@yahoogroups.com Sent: Tuesday, July 15, 2014 9:13 PM Subject: Re: [DAWG-HSMM] WRT54GL-RM on sale $24 at John On 7/15/2014 8:43 PM, Douglas Kilgore kilgore1317@... [DAWG-HSMM] wrote: >Tiger Direct has refurbished Linksys WRT54GL-RM on sale for $29.99. >What is RM model? > >Doug KD5OUG > >http://www.tigerdirect.com/applications/SearchTools/item-details.asp?EdpNo=8925747 > >--- >This email is free from viruses and malware because avast! Antivirus protection is active. >http://www.avast.com > > -- Emergency Communications - Are you ready? ========== John Galvin - N5TIM NTX ARES SEC 214.785.1480 (GV) n5tim@... www.n5tim.info http://arrlntx.org/main/ares-menu/ares/ = Emergency Communications - Are you ready?

==========
John Galvin - N5TIM
NTX ARES SEC
214.785.1480 (GV)
n5tim@...
www.n5tim.info
http://arrlntx.org/main/ares-menu/ares/

2978. Re: [DAWG-HSMM] WRT54GL-RM on sale

Yahoo group: DAWG-HSMM
Date: 2014-07-16 17:08:58 UTC
From: Rusty Haddock
Topic: 2975 Message: 2978

Douglas Kilgore kilgore1317@... [DAWG-HSMM] wrote:
>Tiger Direct has refurbished Linksys WRT54GL-RM on sale for $29.99.
>What is RM model?

I suspect that the -RM is simply tagged onto the end to for
"Re-Manufactured" or refurbished. Other websites have the
same suffix for their refurbished units as well.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2979. Assistance Requested for Antenna Test Wednesday

Yahoo group: DAWG-HSMM
Date: 2014-07-16 18:55:21 UTC
From: Douglas Kilgore
Topic: 2979 Message: 2979

Attention North Texas Amateurs

Tonight Wednesday Jul. 16, the Dallas NBEMS Learning Net will conduct a special activity in place of its usual discussion/training. Tonight the net will assist the City of Richardson Emergency Operations Center (EOC) in evaluating the simplex range/azimuth capability of its amateur radio station's VHF antennas. As it will be helpful to operate with stations at a variety of distances and directions from the EOC, all stations are encouraged to participate.

The net will begin at 1930 local time on the Richardson Wireless Klub 147.12 (+) no PL tone repeater. Stations will check-in by voice and, if capable, by digital text using the MT63-2KL opmode. After check-in on the RWK repeater, stations will be requested to QSY to 145.70 FM simplex vertical polarization for a roll call. Stations may answer roll call either by voice or by digital text. As stations respond to roll call, they will be released.

In order to provide for detailed range/azimuth analysis, we will call for specific information from each check-in. This information may be provided either by voice or by digital text using the MT63-2KL opmode. For voice check-ins, stations will give their CALLSIGN, FIRST NAME, LOCATION, POWER (Watts), and ANTENNA HEIGHT (feet). Stations having FLDIGI are requested to use a special digital check-in macro.

US National Grid coordinates for station "LOCATION" is preferred. Stations that are unable to provide USNG coordinates for "LOCATION" may substitute Mapsco page number, Maidenhead grid, GPS coordinates, or closest city, whichever provides their location with the greatest accuracy. This should be an interesting, fun, and useful net.

Instructions for Fldigi users is below.

Please join us.

Doug Kilgore KD5OUG
kilgore1317@...

For information on the Dallas Narrow Band Emergency Messaging System Learning Net, visit our Yahoo group:
https://groups.yahoo.com/groups/dalNBEMS

For stations having FLDIGI, here is the macro text, ready for pasting into the FLDIGI macro editor for a blank macro button:

<GOHOME><LOCK:on><TXRSID:off><TX>
<LD> <LT>,<MYCALL>,<MYNAME>,LOCATION,POWER,ANTENNA HEIGHT<RX>

IMPORTANT -- After pasting the macro text into the macro editor, stations are to replace "LOCATION", "POWER", and "ANTENNA HEIGHT" with the particular information for their station (retaining the separating commas). For example, here is what the macro text for Paul Newman, KA5TYW, would look like:

<GOHOME><LOCK:on><TXRSID:off><TX>
<LD> <LT>,<MYCALL>,<MYNAME>,14S QB 15899 50859,45,15<RX>

Here is how the transmitted digital check-in for KA5TYW would appear in a receiving station's FLDIGI receive (yellow) pane:

2014-07-16 0942,KA5TYW,Paul,14S QB 15899 50859,45,15

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

2980. Fwd: Central States VHF Conference, Austin, TX - There's still time to register for CSVHFS 2014, but if you can't come ...

Yahoo group: DAWG-HSMM
Date: 2014-07-16 22:50:57 UTC
From: Mark Thompson
Topic: 2980 Message: 2980

-----Original Message-----
From: Stephen Hicks, N5AC <n5ac@...>
To: all-members <all-members@...g>
Sent: Sun, Jul 13, 2014 02:50 PM
Subject: [CSVHFS News] There's still time to register for CSVHFS 2014, but if you can't come ...

There is still time to register for the Central States VHF Conference in
Austin, Texas. The conference is only two weeks away (7/24-27) and you
know what you'd really like to do is get out of town and have a nice visit
with all your Central States friends down in Texas. Just imagine how fun
it would be to sit back on the Lone Star Riverboat, grab a beer or a
margarita (yes, K5AND will be bringing multiple gallons of margaritas) and
have a nice chat about how awful HF propagation will be as we exit the
sunspot cycle and how VHF propagation will not suffer the same fate! We've
arranged over one million bats to share in your conversation and wish us
well with propagation conditions. They will also eat up all the insects so
you can have a insect-free boat trip! Your friends will miss you if you don't come, but you'll also be missing
out on some great speakers -- *Gerald Youngblood, K5SDR*, President and CEO
of FlexRadio Systems will be talking at the Friday luncheon about noise. Over the last several years designing he has performed a great deal of
research into noise on the bands, noise in radio systems, and how best to
measure radio performance to more closely understand how radio designs
respond to noise. You will hear interesting and surprising facts about
noise along with some true, but very counter-intuitive ways that radio
settings can adversely affect noise. *Jim Klitzing, W6PQL*, will be flying in from the Bay Area in California to
share his insights into electronic design and high power amplifiers. Jim
has been supplying the amateur world with high power amplifier boards and
filters and excellent advice on building a VHF and microwave stations. Jim
will be talking about RF components and important information that both
designers and operators should know. Our banquet speaker is *Jimmy Treybig, W6JKV*. Jimmy founded and was the
CEO of Tandem Computers, a Slicon Valley manufacturer of fault tolerant
computers. Tandem delivered its first product in 1975, went public in 1977,
was ranked by Inc Magazine as the fastest growing public company in 1980,
and was on the Fortune 500 list of largest companies in 1984. Jimmy retired
in 1996 when Tandem was a $2.3 Billion company with 8000 people worldwide.
Today Tandem is part of HP. Jimmy has done over SEVENTY six and two-meter
DXpeditions to *over 50 countries*. Jimmy will be sharing his perspectives
on family and DXpeditions. Of course we have a whole cadre of technical speakers for the conference
including: K0MHC, W0ZQ, N6NB, WA5VJB, K5TRA, K4SME, W4ZST, N5YC, K6MIO,
K5AND and W6PQL. So c'mon and register and come down to Texas and have some fun with us --

http://www.csvhfs.org/2014conference/2014Registration.html We'll have a good time even if you don't come, but it would be better if
you were here with us! *We know sometimes life gets in the way and maybe you can't make it this
year...* We'll miss you, but you can still get a copy of the proceedings
to read all the excellent papers our authors have written for you. We have
the proceedings in hand and would be glad to mail you a copy -- to get
yours, just use the registration link above, but deselect conference
registration and instead select "Extra Proceedings (deliver to home)." We'll drop your copy right in the mail! 73,
Steve
Hicks
N5AC
2014 CSVHFS President

2981. Re: [DAWG-HSMM] Digital Tuesday, pushed back to July 22

Yahoo group: DAWG-HSMM
Date: 2014-07-22 03:07:25 UTC
From: Rusty Haddock
Topic: 2973 Message: 2981

Just a reminder for Tuesday night...
Be there or be somewhere else!!

Kipton Moravec kip@... [DAWG-HSMM] wrote:
>Too many things going on with Rusty and me to have a Digital Tuesday
>this week.
>
>> >So we are going to have it July 22, starting at 6:30 at Dicky's Barbeque
>> >in McKinney.
>
>There is a new version of the MESH software that adds some new features
>and 5.4 GHz Ubiquity devices. The 3.4 GHz and 900 MHz units will follow
>in the next upgrade.
>
>Kip

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2982. Re: [DAWG-HSMM] Digital Tuesday, pushed back to July 22

Yahoo group: DAWG-HSMM
Date: 2014-07-22 03:12:54 UTC
From: Kipton Moravec
Topic: 2973 Message: 2982

There is a new version of the MESH software lets load and test it.

I will be bringing some 24 db 2.4 GHz antennas. $10 each.

Kip

On Mon, 2014-07-21 at 22:07 -0500, Rusty Haddock
rusty@... [DAWG-HSMM] wrote:
> Just a reminder for Tuesday night...
> Be there or be somewhere else!!
>
>
> Kipton Moravec kip@... [DAWG-HSMM] wrote:
> >Too many things going on with Rusty and me to have a Digital Tuesday
> >this week.
> >
> >> >So we are going to have it July 22, starting at 6:30 at Dicky's Barbeque
> >> >in McKinney.
> >
> >There is a new version of the MESH software that adds some new features
> >and 5.4 GHz Ubiquity devices. The 3.4 GHz and 900 MHz units will follow
> >in the next upgrade.
> >
> >Kip
>

2983. Re: [DAWG-HSMM] Digital Tuesday, pushed back to July 22

Yahoo group: DAWG-HSMM
Date: 2014-07-22 03:47:49 UTC
From: Floyd Rodgers
Topic: 2973 Message: 2983

Can I get some details on the antenna? Is it shippable and the shipping cost? Lancaster (75134) to McKinney is a long ride.

On 7/21/2014 10:12 PM, Kipton Moravec kip@... [DAWG-HSMM] wrote:
>
> There is a new version of the MESH software lets load and test it.
>
> I will be bringing some 24 db 2.4 GHz antennas. $10 each.
>

2984. Re: [DAWG-HSMM] Digital Tuesday, pushed back to July 22

Yahoo group: DAWG-HSMM
Date: 2014-07-22 12:46:40 UTC
From: Kipton Moravec
Topic: 2973 Message: 2984

It is a 24 db grill type reflector antenna.

It is big, and shipping will cost more than the antenna.

I picked these up in Arlington, and am charging what I paid for them to
get the spread out in the community.

Kip

On Mon, 2014-07-21 at 22:47 -0500, Floyd Rodgers kc5qbc@...
[DAWG-HSMM] wrote:
>
>
> Can I get some details on the antenna? Is it shippable and the
> shipping cost? Lancaster (75134) to McKinney is a long ride.
>
> On 7/21/2014 10:12 PM, Kipton Moravec kip@... [DAWG-HSMM]
> wrote:
>
> >
> > There is a new version of the MESH software lets load and test it.
> >
> > I will be bringing some 24 db 2.4 GHz antennas. $10 each.
> >
> >
> >
>
>
>

2985. airMAX NanoStation M3 paper to be presented at DCC in Austin

Yahoo group: DAWG-HSMM
Date: 2014-07-22 14:17:38 UTC
From: John
Topic: 2973 Message: 2985

FYI

W2LNX will be presenting a paper on his experience with the airMAX NanoStation M3 at the ARRL/TAPR DCC in Austin Sept 5-7th. His experimentation included the use of 4 NanoStations. Apparently he was able to purchase them from a US distributor.

--
John, W9DDD

2986. Re: [DAWG-HSMM] airMAX NanoStation M3 paper to be presented at DCC in Austin

Yahoo group: DAWG-HSMM
Date: 2014-07-22 16:12:25 UTC
From: zaphod
Topic: 2973 Message: 2986

Im interested in one so reserve one for my purchase...please.

From: "John w9ddd@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Tuesday, July 22, 2014 9:17 AM
Subject: [DAWG-HSMM] airMAX NanoStation M3 paper to be presented at DCC in Austin

FYI

W2LNX will be presenting a paper on his experience with the airMAX NanoStation M3 at the ARRL/TAPR DCC in Austin Sept 5-7th. His experimentation included the use of 4 NanoStations. Apparently he was able to purchase them from a US distributor.

--
John, W9DDD

2987. Re: [DAWG-HSMM] airMAX NanoStation M3 paper to be presented at DCC in Austin

Yahoo group: DAWG-HSMM
Date: 2014-07-22 16:32:24 UTC
From: John
Topic: 2973 Message: 2987

I'm also interested, but at the present I don't have the name of the distributor. I'm not sure if the model he used is the one I would want since I don't see any easy way to hook an external antenna.

http://ubnt.ca/nanostation-m/3-nanostation-m3-international-.html seems to be the model he used.

I will be attending the DCC (Digital Communications Conference), so I will be sure to get all the information I can.

On 7/22/2014 11:12 AM, zaphod zaphod1@... [DAWG-HSMM] wrote:
>
>
> Im interested in one so reserve one for my purchase...please.
>
> ---
> *From:* "John w9ddd@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
> *To:* DAWG-HSMM@yahoogroups.com
> *Sent:* Tuesday, July 22, 2014 9:17 AM
> *Subject:* [DAWG-HSMM] airMAX NanoStation M3 paper to be presented at DCC in
> Austin
>
> FYI
>
> W2LNX will be presenting a paper on his experience with the airMAX NanoStation
> M3 at the ARRL/TAPR DCC in Austin Sept 5-7th. His experimentation included
> the use of 4 NanoStations. Apparently he was able to purchase them from a US
> distributor.
>
> --
> John, W9DDD
>
>
>
>
>

--
John, W9DDD

2988. New release of HSMM-Pi

Yahoo group: DAWG-HSMM
Date: 2014-07-22 21:45:37 UTC
From: Rusty Haddock
Topic: 2988 Message: 2988

If you're interested in this download for your RPi....
I'm working on getting it loaded onto one of my RPi's so I'll
try to bring it to the meeting tonight.

This came from the HSMM-Pi group on Google+:

Scott Kidder OWNER Discussion - 11:11 AM

Today I released HSMM-Pi v0.4.0. It's mostly a bug-fix release to
address stability issues reported by users, and ensure compatibility
with Broadband Hamnet v1.1.2. You can find more details in the following
blog post: http://hsmmpi.wordpress.com/2014/07/22/release-0-4-0/

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2989. LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-06 16:06:21 UTC
From: ross_mazzola@...
Topic: 2989 Message: 2989

I'm leading the charge up here in the great white north (Rochester, NY) to use BBHN for public service and emergency communication support activities. I currently have two working nodes with an IP camera being advertised as a service on one of them. It works great so now I'd like to be able to demonstrate additional functionality of a system like this. Since BBHN is a technically a LAN, I thought that I would try a simple chat application called LAN Messenger. LAN Messenger is a cross-platform instant messaging application for communication over a local network. It does not require a server. I installed the program in the two computers that I plan to use with the mesh bodes and the program works when they are connected via a traditional wireless network but the program does not work when the computers are connected to the mesh network. The computers just don't "see" each other and don't connect through the mesh nodes. Does anybody have any ideas for why this might be? Unfortunately I am not a networking guy and I'd prefer not to use a server based IRC program until I have no other options. I'm hoping maybe all I have to do is something the ports in nodes?

Thanks & 73,

Ross
KC2LOC

LAN Messenger http://lanmsngr.sourceforge.net/

http://lanmsngr.sourceforge.net/

LAN Messenger http://lanmsngr.sourceforge.net/ An intranet chat application that does not require a server.

View on lanmsngr.sourcefor... http://lanmsngr.sourceforge.net/
Preview by Yahoo

2990. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-06 18:53:14 UTC
From: zaphod
Topic: 2989 Message: 2990

What ports is it trying to use? Video is going to require a TREMENDOUS amount of bandwidth. Your latency may be too great for the application to work and get and answer back. Its hard to say as Im only taking an educated guess as to what the issue is, without a wireshark view of the app trying to connect we are going to keep guessing at it.

Erick

From: "ross_mazzola@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Wednesday, August 6, 2014 11:06 AM
Subject: [DAWG-HSMM] LAN Messenger

I'm leading the charge up here in the great white north (Rochester, NY) to use BBHN for public service and emergency communication support activities. I currently have two working nodes with an IP camera being advertised as a service on one of them. It works great so now I'd like to be able to demonstrate additional functionality of a system like this. Since BBHN is a technically a LAN, I thought that I would try a simple chat application called LAN Messenger. LAN Messenger is a cross-platform instant messaging application for communication over a local network. It does not require a server. I installed the program in the two computers that I plan to use with the mesh bodes and the program works when they are connected via a traditional wireless network but the program does not work when the computers are connected to the mesh network. The computers just don't "see" each other and don't connect through the mesh nodes. Does anybody have any ideas for why this might be? Unfortunately I am not a networking guy and I'd prefer not to use a server based IRC program until I have no other options. I'm hoping maybe all I have to do is something the ports in nodes?

Thanks & 73,

Ross
KC2LOC&nb! sp;

LAN Messenger

LAN Messenger
An intranet chat application that does not require a server.
View on lanmsngr.sourcefor... Preview by Yahoo

2991. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-06 18:59:36 UTC
From: James Hall
Topic: 2989 Message: 2991

LAN messenger is a instant messaging type app but it's peer-peer rather than client server. It's not video, though it sounds like there's already a webcam application being run. My guess is it's either something to do with the ports it requires or probably LAN messenger requires the ability to do broadcasts and those are not making it through.

On Wed, Aug 6, 2014 at 2:53 PM, zaphod zaphod1@... [DAWG-HSMM] <
DAWG-HSMM@yahoogroups.com> wrote:

>
>
> What ports is it trying to use? Video is going to require a TREMENDOUS
> amount of bandwidth. Your latency may be too great for the application to
> work and get and answer back. Its hard to say as Im only taking an educated
> guess as to what the issue is, without a wireshark view of the app trying
> to connect we are going to keep guessing at it.
>
> Erick
>
>
> ----------
> *From:* "ross_mazzola@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com
> >
> *To:* DAWG-HSMM@yahoogroups.com
> *Sent:* Wednesday, August 6, 2014 11:06 AM
> *Subject:* [DAWG-HSMM] LAN Messenger
>
>
> I'm leading the charge up here in the great white north (Rochester, NY)
> to use BBHN for public service and emergency communication support
> activities. I currently have two working nodes with an IP camera being
> advertised as a service on one of them. It works great so now I'd like to
> be able to demonstrate additional functionality of a system like this. Since
> BBHN is a technically a LAN, I thought that I would try a simple chat
> application called LAN Messenger. LAN Messenger is a cross-platform
> instant messaging application for communication over a local network. It
> does not require a server. I installed the program in the two computers
> that I plan to use with the mesh bodes and the program works when they are
> connected via a traditional wireless network but the program does not work
> when the computers are connected to the mesh network. The computers just
> don't "see" each other and don't connect through the mesh nodes. Does
> anybody have any ideas for why this might be? Unfortunately I am not a
> networking guy and I'd prefer not to use a server based IRC program until I
> have no other options. I'm hoping maybe all I have to do is something the
> ports in nodes?

>
> Thanks & 73,
>
> Ross
> KC2LOC&nb! sp;
>
> LAN Messenger <http://lanmsngr.sourceforge.net/>
> [image: image] <http://lanmsngr.sourceforge.net/>
> LAN Messenger <http://lanmsngr.sourceforge.net/>
> An intranet chat application that does not require a server.
> View on lanmsngr.sourcefor... <http://lanmsngr.sourceforge.net/>
> Preview by Yahoo
>
>
>
>
>

2992. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-07 01:17:00 UTC
From: ross_mazzola@...
Topic: 2989 Message: 2992

Thank you for the quick responses. Sorry for my confusing post. James is correct, the streaming video is working fine. It's the chat application that I need help with.

The LAN Manager chat program that I want use has default network settings of:
Multicast address= 239.255.100.100
UDP Port = 50000
TCP Port = 50000

My gut tells me that I either have to change something in my mesh node setup or change these settings. Problem is I don't know what to change or how. Would I do something with port forwarding?

73,
Ross
KC2LOC

2993. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-07 01:58:01 UTC
From: Rusty Haddock
Topic: 2989 Message: 2993

I suspect the issue is that 'Lan Messenger' is seeing your PC's Ethernet settings and using UDP to broadcast to the "what it thinks" is a LAN. The issue probably is that, even with 'Direct' mode and your PC's ethernet port having a 10.*.*.* IP address, your PC is actually on a sub-LAN. This sub-LAN consists of the attached mesh node and any other machines attached to the LAN ports, not the entire mesh. Any UDP broadcasts sent (unless the program is manually reconfigured, if that's even possible) are sent only to those hosts.

Kinda deep if you're not TCP/UDP knowledgeable but that's the best I can come up with.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

2994. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 02:42:07 UTC
From: Kipton Moravec
Topic: 2989 Message: 2994

On Wed, 2014-08-06 at 20:58 -0500, Rusty Haddock
rusty@... [DAWG-HSMM] wrote:
> I suspect the issue is that 'Lan Messenger' is seeing your PC's Ethernet
> settings and using UDP to broadcast to the "what it thinks" is a LAN.
> The issue probably is that, even with 'Direct' mode and your PC's ethernet
> port having a 10.*.*.* IP address, your PC is actually on a sub-LAN.
> This sub-LAN consists of the attached mesh node and any other machines
> attached to the LAN ports, not the entire mesh. Any UDP broadcasts sent
> (unless the program is manually reconfigured, if that's even possible)
> are sent only to those hosts.
>
> Kinda deep if you're not TCP/UDP knowledgeable but that's the best I
> can come up with.
>

In my humble opinion I think Rusty has it correct. You could test the
theory by plugging both computers in the LAN port of a single router,
and I will bet it works.

Kip

2995. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 04:24:40 UTC
From: Brian D Heaton
Topic: 2989 Message: 2995

Just looking at the web site, it appears to use broadcast packets.
There doesn't appear to be much in the way of protocol documentation
other than trying to dig it out of the source.

Have you tried using Wireshark to take a look at the packets on the air?

73-KY9K/Brian

On 8/6/2014 11:59, James Hall hall.jamesr@... [DAWG-HSMM] wrote:
> LAN messenger is a instant messaging type app but it's peer-peer
> rather than client server. It's not video, though it sounds like
> there's already a webcam application being run. My guess is it's
> either something to do with the ports it requires or probably LAN
> messenger requires the ability to do broadcasts and those are not
> making it through.
>
>
> On Wed, Aug 6, 2014 at 2:53 PM, zaphod zaphod1@...
> <mailto:zaphod1@...> [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com
> <mailto:DAWG-HSMM@yahoogroups.com>> wrote:
>
> What ports is it trying to use? Video is going to require a
> TREMENDOUS amount of bandwidth. Your latency may be too great for
> the application to work and get and answer back. Its hard to say
> as Im only taking an educated guess as to what the issue is,
> without a wireshark view of the app trying to connect we are going
> to keep guessing at it.
>
> Erick
>
>
> ---
> *From:* "ross_mazzola@...
> <mailto:ross_mazzola@...> [DAWG-HSMM]"
> <DAWG-HSMM@yahoogroups.com <mailto:DAWG-HSMM@yahoogroups.com>>
> *To:* DAWG-HSMM@yahoogroups.com <mailto:DAWG-HSMM@yahoogroups.com>
> *Sent:* Wednesday, August 6, 2014 11:06 AM
> *Subject:* [DAWG-HSMM] LAN Messenger
>
> I'm leading the charge up here in the great white north
> (Rochester, NY) to use BBHN for public service and emergency
> communication support activities. I currently have two working
> nodes with an IP camera being advertised as a service on one of
> them. It works great so now I'd like to be able to demonstrate
> additional functionality of a system like this. Since BBHN is a
> technically a LAN, I thought that I would try a simple chat

> application called LAN Messenger. LAN Messenger is a
> cross-platform instant messaging application for communication
> over a local network. It does not require a server. I installed
> the program in the two computers that I plan to use with the mesh
> bodes and the program works when they are connected via a
> traditional wireless network but the program does not work when
> the computers are connected to the mesh network. The computers
> just don't "see" each other and don't connect through the mesh
> nodes. Does anybody have any ideas for why this might be?
> Unfortunately I am not a networking guy and I'd prefer not to use
> a server based IRC program until I have no other options. I'm
> hoping maybe all I have to do is something the ports in nodes?
>
> Thanks & 73,
>
> Ross
> KC2LOC&nb! sp;
>
> LAN Messenger <http://lanmsngr.sourceforge.net/>
>
>
>
> image <http://lanmsngr.sourceforge.net/>
>
>
> LAN Messenger <http://lanmsngr.sourceforge.net/>
> An intranet chat application that does not require a server.
>
> View on lanmsngr.sourcefor... <http://lanmsngr.sourceforge.net/>
>
> Preview by Yahoo
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>

2996. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 04:32:15 UTC
From: w2ttt@att.net
Topic: 2989 Message: 2996

Have you considered using an Internet Relay Chat or IRC server and clients? We have with grsat success over the BBHN.
73,
Gordon Beattie, W2TTT
201.314.6964

Sent from Samsung tablet

-------- Original message --------
From: "Brian D Heaton ky9k-lists@ky9k.org [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date: 2014/08/08 00:24 (GMT-05:00)
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] LAN Messenger

Just looking at the web site, it appears to use broadcast packets. There doesn't appear to be much in the way of protocol documentation other than trying to dig it out of the source.

Have you tried using Wireshark to take a look at the packets on the air?

73-KY9K/Brian

On 8/6/2014 11:59, James Hall hall.jamesr@gmail.com [DAWG-HSMM] wrote:

LAN messenger is a instant messaging type app but it's peer-peer rather than client server. It's not video, though it sounds like there's already a webcam application being run. My guess is it's either something to do with the ports it requires or probably LAN messenger requires the ability to do broadcasts and those are not making it through.

On Wed, Aug 6, 2014 at 2:53 PM, zaphod zaphod1@swbell.net [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

What ports is it trying to use? Video is going to require a TREMENDOUS amount of bandwidth. Your latency may be too great for the application to work and get and answer back. Its hard to say as Im only taking an educated guess as to what the issue is, without a wireshark view of the app trying to connect we are going to keep guessing at it.

Erick

From: "ross_mazzola@hotmail.com [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Wednesday, August 6, 2014 11:06 AM
Subject: [DAWG-HSMM] LAN Messenger

I'm leading the charge up here in the great white north (Rochester, NY) to use BBHN for public service and emergency communication support activities. I currently have two working nodes with an IP camera being advertised as a service on one of them. It works great so now I'd like to be able to demonstrate additional functionality of a system like this. Since BBHN is a technically a LAN, I thought that I would try a simple chat

application called LAN Messenger. LAN Messenger is a cross-platform instant messaging application for communication over a local network. It does not require a server. I installed the program in the two computers that I plan to use with the mesh bodes and the program works when they are connected via a traditional wireless network but the program does not work when the computers are connected to the mesh network. The computers just don't "see" each other and don't connect through the mesh nodes. Does anybody have any ideas for why this might be? Unfortunately I am not a networking guy and I'd prefer not to use a server based IRC program until I have no other options. I'm hoping maybe all I have to do is something the ports in nodes?

Thanks & 73,

Ross
KC2LOC&nb! sp;

LAN Messenger

LAN Messenger
An intranet chat application that does not require a server.

View on lanmsngr.sourcefor...
Preview by Yahoo

2997. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 04:38:45 UTC
From: Brian D Heaton
Topic: 2989 Message: 2997

Note to self: Read all messages in thread before replying..

Multicast address= 239.255.100.100
UDP Port = 50000
TCP Port = 50000

If you take a look at the packets with Wireshark, I'm willing to get you'll see the TTL set to 1. That means the packets won't cross the first router.

The second issue is an effective and efficient multicast routing protocol for mesh networks. A quick Google for "multicast routing mesh networks" will bring up many papers that show the problem isn't trivial. I can suggest Minimum Number of Transmissions (MNT) trees are likely the best way ahead, but I can't get too much deeper due to IP conflicts.

73-KY9K/Brian

On 8/7/2014 21:24, Brian D Heaton ky9k-lists@... [DAWG-HSMM] wrote:
>
> Just looking at the web site, it appears to use broadcast packets.
> There doesn't appear to be much in the way of protocol documentation
> other than trying to dig it out of the source.
>
> Have you tried using Wireshark to take a look at the packets on the air?
>
> 73-KY9K/Brian
>
>
> On 8/6/2014 11:59, James Hall hall.jamesr@... [DAWG-HSMM] wrote:
>> LAN messenger is a instant messaging type app but it's peer-peer
>> rather than client server. It's not video, though it sounds like
>> there's already a webcam application being run. My guess is it's
>> either something to do with the ports it requires or probably LAN
>> messenger requires the ability to do broadcasts and those are not
>> making it through.
>>
>>
>> On Wed, Aug 6, 2014 at 2:53 PM, zaphod zaphod1@...
>> <mailto:zaphod1@...> [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com
>> <mailto:DAWG-HSMM@yahoogroups.com>> wrote:
>>
>> What ports is it trying to use? Video is going to require a
>> TREMENDOUS amount of bandwidth. Your latency may be too great for

>> the application to work and get and answer back. Its hard to say
>> as Im only taking an educated guess as to what the issue is,
>> without a wireshark view of the app trying to connect we are
>> going to keep guessing at it.
>>
>> Erick
>>
>>
>> ---
>> *From:* "ross_mazzola@...
>> <mailto:ross_mazzola@...> [DAWG-HSMM]"
>> <DAWG-HSMM@yahoogroups.com <mailto:DAWG-HSMM@yahoogroups.com>>
>> *To:* DAWG-HSMM@yahoogroups.com <mailto:DAWG-HSMM@yahoogroups.com>
>> *Sent:* Wednesday, August 6, 2014 11:06 AM
>> *Subject:* [DAWG-HSMM] LAN Messenger
>>
>> I'm leading the charge up here in the great white north
>> (Rochester, NY) to use BBHN for public service and emergency
>> communication support activities. I currently have two working
>> nodes with an IP camera being advertised as a service on one of
>> them. It works great so now I'd like to be able to demonstrate
>> additional functionality of a system like this. Since BBHN is a
>> technically a LAN, I thought that I would try a simple chat
>> application called LAN Messenger. LAN Messenger is a
>> cross-platform instant messaging application for communication
>> over a local network. It does not require a server. I installed
>> the program in the two computers that I plan to use with the mesh
>> bodes and the program works when they are connected via a
>> traditional wireless network but the program does not work when
>> the computers are connected to the mesh network. The computers
>> just don't "see" each other and don't connect through the mesh
>> nodes. Does anybody have any ideas for why this might be?
>> Unfortunately I am not a networking guy and I'd prefer not to
>> use a server based IRC program until I have no other options.
>> I'm hoping maybe all I have to do is something the ports in nodes?
>>
>> Thanks & 73,
>>
>> Ross
>> KC2LOC&nb! sp;
>>
>> LAN Messenger <http://lanmsngr.sourceforge.net/>
>>
>>
>>
>> image <http://lanmsngr.sourceforge.net/>
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>>
>> LAN Messenger <http://lanmsngr.sourceforge.net/>
>> An intranet chat application that does not require a server.

```
>>
>> View on lanmsngr.sourcefor... <http://lanmsngr.sourceforge.net/>
>>
>> Preview by Yahoo
>>
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2998. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 10:52:28 UTC
From: ross_mazzola@...
Topic: 2989 Message: 2998

I'll give this a test tonight

Ross
KC2LOC

2999. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 10:53:26 UTC
From: ross_mazzola@...
Topic: 2989 Message: 2999

I have not used wireshark but it sounds like a useful tool. I'll try to download it and give a try this weekend.

Ross
KC2LOC

3000. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 10:57:30 UTC
From: ross_mazzola@...
Topic: 2989 Message: 3000

Yes. I have a chat server installed on my rasberry pi connected to one of my mesh nodes but I ran into problems advertising the service. And identifying a good, easy to use client program for other people to install on their computers was a challenge due to my inexperience in this area. That's why the 'no server needed" approach was attractive. What chat server and clients would you recommend? Perhaps I should revisit that approach.

73,

Ross
KC2LOC

3001. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 11:03:57 UTC
From: ross_mazzola@...
Topic: 2989 Message: 3001

The LAN Messenger program does allow the multicast address and port values to be easily changed. And there is even a field for me to enter a broadcast address. Would wireshark show me what I should set these values to?

73,
Ross
KC2LOC

3002. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 11:40:09 UTC
From: Ron Wallace
Topic: 2989 Message: 3002

Could you please contact each other directly. I get enough emails without all the extra from group emails. Thanks, Ron
-------- Original message --------
From: "'w2ttt@att.net' w2ttt@att.net [DAWG-HSMM]"
Date:08/07/2014 23:32 (GMT-06:00)
To: "Brian D Heaton ky9k-lists@ky9k.org [DAWG-HSMM]"
Cc: Gordon Beattie
Subject: Re: [DAWG-HSMM] LAN Messenger

Have you considered using an Internet Relay Chat or IRC server and clients? We have with grsat success over the BBHN. 73, Gordon Beattie, W2TTT 201.314.6964 Sent from Samsung tablet -------- Original message -------- From: "Brian D Heaton ky9k-lists@ky9k.org [DAWG-HSMM]" Date: 2014/08/08 00:24 (GMT-05:00) To: DAWG-HSMM@yahoogroups.com Subject: Re: [DAWG-HSMM] LAN Messenger Just looking at the web site, it appears to use broadcast packets. There doesn't appear to be much in the way of protocol documentation other than trying to dig it out of the source. Have you tried using Wireshark to take a look at the packets on the air? 73-KY9K/Brian On 8/6/2014 11:59, James Hall hall.jamesr@gmail.com [DAWG-HSMM] wrote: LAN messenger is a instant messaging type app but it's peer-peer rather than client server. It's not video, though it sounds like there's already a webcam application being run. My guess is it's either something to do with the ports it requires or probably LAN messenger requires the ability to do broadcasts and those are not making it through. On Wed, Aug 6, 2014 at 2:53 PM, zaphod zaphod1@swbell.net [DAWG-HSMM] wrote: What ports is it trying to use? Video is going to require a TREMENDOUS amount of bandwidth. Your latency may be too great for the application to work and get and answer back. Its hard to say as Im only taking an educated guess as to what the issue is, without a wireshark view of the app trying to connect we are going to keep guessing at it. Erick From: "ross_mazzola@hotmail.com [DAWG-HSMM]" To: DAWG-HSMM@yahoogroups.com Sent: Wednesday, August 6, 2014 11:06 AM Subject: [DAWG-HSMM] LAN Messenger I'm leading the charge up here in the great white north (Rochester, NY) to use BBHN for public service and emergency communication support activities. I currently have two working nodes with an IP camera being advertised as a service on one of them. It works great so now I'd like to be able to demonstrate additional functionality of a system like this. Since BBHN is a technically a LAN, I thought that I would try a simple chat application called LAN Messenger. LAN Messenger is a cross-platform instant messaging application for communication over a local network. It does not require a server. I installed the program in the two computers that I plan to use with the mesh bodes and the program works when they are connected via a traditional wireless network but the program does not work when the computers are connected to the mesh network. The computers just don't "see" each other and don't connect through the mesh nodes. Does anybody have any ideas for why this might be? Unfortunately I am not a networking guy and I'd prefer not to use a server based IRC program until I have no other options. I'm hoping maybe all I have to do is something the ports in nodes? Thanks & 73, Ross KC2LOC&nb! sp; LAN Messenger LAN Messenger An intranet chat application that does not require a server. View on lanmsngr.sourcefor... Preview by Yahoo

3003. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 13:30:13 UTC
From: John
Topic: 2989 Message: 3003

Perhaps switching your subscription to a daily digest would give you a better experience.

Taking a discussion such as this off list is contrary to the reason some of us join the list ... to learn. While it may to old news to you some of us are just getting up to speed.

Thanks,

On 8/8/2014 6:40 AM, Ron Wallace KD5OYK@... [DAWG-HSMM] wrote:
>
>
>
> Could you please contact each other directly. I get enough emails without all
> the extra from group emails.
>
> Thanks,
>
> Ron
>
> -------- Original message --------
> From: "'w2ttt@...' w2ttt@... [DAWG-HSMM]"
> Date:08/07/2014 23:32 (GMT-06:00)
> To: "Brian D Heaton ky9k-lists@... [DAWG-HSMM]"
> Cc: Gordon Beattie
> Subject: Re: [DAWG-HSMM] LAN Messenger
>
> Have you considered using an Internet Relay Chat or IRC server and clients? We
> have with grsat success over the BBHN.
> 73,
> Gordon Beattie, W2TTT
> 201.314.6964
>
>
>
>
>
> Sent from Samsung tablet
>
>
>
> -------- Original message --------
> From: "Brian D Heaton ky9k-lists@... [DAWG-HSMM]"
> <DAWG-HSMM@yahoogroups.com>
> Date: 2014/08/08 00:24 (GMT-05:00)
> To: DAWG-HSMM@yahoogroups.com

> Subject: Re: [DAWG-HSMM] LAN Messenger
>
>
> Just looking at the web site, it appears to use broadcast packets. There
> doesn't appear to be much in the way of protocol documentation other than
> trying to dig it out of the source.
>
> Have you tried using Wireshark to take a look at the packets on the air?
>
> 73-KY9K/Brian
>
>
> On 8/6/2014 11:59, James Hall hall.jamesr@... [DAWG-HSMM] wrote:
>> LAN messenger is a instant messaging type app but it's peer-peer rather than
>> client server. It's not video, though it sounds like there's already a
>> webcam application being run. My guess is it's either something to do with
>> the ports it requires or probably LAN messenger requires the ability to do
>> broadcasts and those are not making it through.
>>
>>
>> On Wed, Aug 6, 2014 at 2:53 PM, zaphod zaphod1@...
>> <mailto:zaphod1@...> [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com
>> <mailto:DAWG-HSMM@yahoogroups.com>> wrote:
>>
>> What ports is it trying to use? Video is going to require a TREMENDOUS
>> amount of bandwidth. Your latency may be too great for the application
>> to work and get and answer back. Its hard to say as Im only taking an
>> educated guess as to what the issue is, without a wireshark view of the
>> app trying to connect we are going to keep guessing at it.
>>
>> Erick
>>
>>
>> ---
>> *From:* "ross_mazzola@... <mailto:ross_mazzola@...>
>> [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com <mailto:DAWG-HSMM@yahoogroups.com>>
>> *To:* DAWG-HSMM@yahoogroups.com <mailto:DAWG-HSMM@yahoogroups.com>
>> *Sent:* Wednesday, August 6, 2014 11:06 AM
>> *Subject:* [DAWG-HSMM] LAN Messenger
>>
>> I'm leading the charge up here in the great white north (Rochester, NY)
>> to use BBHN for public service and emergency communication support
>> activities. I currently have two working nodes with an IP camera being
>> advertised as a service on one of them. It works great so now I'd like
>> to be able to demonstrate additional functionality of a system like
>> this. Since BBHN is a technically a LAN, I thought that I would try a
>> simple chat application called LAN Messenger. LAN Messenger is a
>> cross-platform instant messaging application for communication over a
>> local network. It does not require a server. I installed the program in
>> the two computers that I plan to use with the mesh bodes and the program

>> works when they are connected via a traditional wireless network but the
>> program does not work when the computers are connected to the mesh
>> network. The computers just don't "see" each other and don't connect
>> through the mesh nodes. Does anybody have any ideas for why this might
>> be? Unfortunately I am not a networking guy and I'd prefer not to use a
>> server based IRC program until I have no other options. I'm hoping maybe
>> all I have to do is something the ports in nodes?
>>
>> Thanks & 73,
>>
>> Ross
>> KC2LOC&nb! sp;
>>
>> LAN Messenger <http://lanmsngr.sourceforge.net/>
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>> image <http://lanmsngr.sourceforge.net/>
>>
>>
>> LAN Messenger <http://lanmsngr.sourceforge.net/>
>> An intranet chat application that does not require a server.
>>
>> View on lanmsngr.sourcefor... <http://lanmsngr.sourceforge.net/>
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>> Preview by Yahoo
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John, W9DDD

3004. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 13:49:46 UTC
From: Ron Wallace
Topic: 2989 Message: 3004

Okay whomever it concerns/the group admin. Please take me off off the list. I no longer have access to any of my yahoo groups. I cannot get into them etc.... Ron
-------- Original message --------
From: "John w9ddd@tapr.org [DAWG-HSMM]"
Date:08/08/2014 08:30 (GMT-06:00)
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] LAN Messenger

Perhaps switching your subscription to a daily digest would give you a better experience. Taking a discussion such as this off list is contrary to the reason some of us join the list ... to learn. While it may to old news to you some of us are just getting up to speed. Thanks, On 8/8/2014 6:40 AM, Ron Wallace KD5OYK@verizon.net [DAWG-HSMM] wrote: > > > > Could you please contact each other directly. I get enough emails without all > the extra from group emails. > > Thanks, > > Ron > > -------- Original message -------- > From: "'w2ttt@att.net' w2ttt@att.net [DAWG-HSMM]" > Date:08/07/2014 23:32 (GMT-06:00) > To: "Brian D Heaton ky9k-lists@ky9k.org [DAWG-HSMM]" > Cc: Gordon Beattie > Subject: Re: [DAWG-HSMM] LAN Messenger > > Have you considered using an Internet Relay Chat or IRC server and clients? We > have with grsat success over the BBHN. > 73, > Gordon Beattie, W2TTT > 201.314.6964 > > > > > > Sent from Samsung tablet > > > > -------- Original message -------- > From: "Brian D Heaton ky9k-lists@ky9k.org [DAWG-HSMM]" > > Date: 2014/08/08 00:24 (GMT-05:00) > To: DAWG-HSMM@yahoogroups.com > Subject: Re: [DAWG-HSMM] LAN Messenger > > > Just looking at the web site, it appears to use broadcast packets. There > doesn't appear to be much in the way of protocol documentation other than > trying to dig it out of the source. > > Have you tried using Wireshark to take a look at the packets on the air? > > 73-KY9K/Brian > > > On 8/6/2014 11:59, James Hall hall.jamesr@gmail.com [DAWG-HSMM] wrote: >> LAN messenger is a instant messaging type app but it's peer-peer rather than >> client server. It's not video, though it sounds like there's already a >> webcam application being run. My guess is it's either something to do with >> the ports it requires or probably LAN messenger requires the ability to do >> broadcasts and those are not making it through. >> >> >> On Wed, Aug 6, 2014 at 2:53 PM, zaphod zaphod1@swbell.net >> [DAWG-HSMM] > > wrote: >> >> What ports is it trying to use? Video is going to require a TREMENDOUS >> amount of bandwidth. Your latency may be too great for the application >> to work and get and answer back. Its hard to say as Im only taking an >> educated guess as to what the issue is, without a wireshark view of the >> app trying to connect we are going to keep guessing at it. >> >> Erick >> >> >> ---------- >> *From:* "ross_mazzola@hotmail.com >> [DAWG-HSMM]" > >> *To:* DAWG-HSMM@yahoogroups.com >> *Sent:* Wednesday, August 6, 2014 11:06 AM >> *Subject:* [DAWG-HSMM] LAN Messenger >> >> I'm leading the charge up here in the great white north (Rochester, NY) >> to use BBHN for public service and emergency communication support >> activities. I currently have two working nodes with an IP camera being >> advertised as a service on one of them. It works great so now I'd like >> to be able to demonstrate additional functionality of a system like >> this. Since BBHN is a technically a LAN, I thought that I would try a >> simple chat application called LAN Messenger. LAN Messenger is a >> cross-platform instant messaging application for communication over a >> local network. It does not require a

server. I installed the program in >> the two computers that I plan to use with the mesh bodes and the program >> works when they are connected via a traditional wireless network but the >> program does not work when the computers are connected to the mesh >> network. The computers just don't "see" each other and don't connect >> through the mesh nodes. Does anybody have any ideas for why this might >> be? Unfortunately I am not a networking guy and I'd prefer not to use a >> server based IRC program until I have no other options. I'm hoping maybe >> all I have to do is something the ports in nodes? >> >> Thanks & 73, >> >> Ross >> KC2LOC&nb! sp; >> >> LAN Messenger >> >> >> >> image >> >> >> LAN Messenger >> An intranet chat application that does not require a server. >> >> View on lanmsngr.sourcefor... >> >> Preview by Yahoo >> >> >> >> >> > > > > -- John, W9DDD

3005. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 14:25:45 UTC
From: James Hall
Topic: 2989 Message: 3005

Something else you can consider is a jabber server if you want an instant messaging experience like LAN Messenger. There are servers for all the main desktop operating systems and clients for almost anything.

On Fri, Aug 8, 2014 at 6:57 AM, ross_mazzola@... [DAWG-HSMM] <
DAWG-HSMM@yahoogroups.com> wrote:

>
>
> Yes. I have a chat server installed on my rasberry pi connected to one of
> my mesh nodes but I ran into problems advertising the service. And
> identifying a good, easy to use client program for other people to install
> on their computers was a challenge due to my inexperience in this area.
> That's why the 'no server needed" approach was attractive. What chat
> server and clients would you recommend? Perhaps I should revisit that
> approach.
>
> 73,
>
> Ross
> KC2LOC
>
>
>

3006. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 14:36:29 UTC
From: Brian D Heaton
Topic: 2989 Message: 3006

W2TTT (Gordon) brought up the most common solution - IRC. There is a package called "ngircd" (Next Generation Internet Relay Chat Daemon) for BBHN/OpenWRT that provides the server function. On the client side, I use "Pidgin" as my IRC client on desktop (Windows/Linux/Unix). As a big plus, Pidgin supports multiple IM networks so you can learn that client once for all the different IM networks out there. On Android devices, I use "SimpleIRC". There are more complex and feature rich clients, but SimpleIRC is the easiest one to configure I found. At SEAPAC in 2013, we did a demo using IRC and had the instructions up for people attending to configure SimpleIRC and chat on the network in the room. It worked quite well.

The primary issue with IRC is that the server-to-server links have to be configured in the configuration file. This isn't a huge impediment if you put the IRC servers on fixed infrastructure nodes. For mobile deployments to areas that don't have fixed infrastructure, that can be a significant issue.

Serverless chat implementations, or perhaps better - server-based implementations with servers that find each other and setup links on the fly - are very attractive for MANET applications. Multicast works great for service discovery on wifi-based wireless networks, but not nearly as well for delivering user traffic. In 802.11 networking, every unicast wireless packet is ACKed or rebroadcast at Layer2. That function doesn't happen with multicast. Unless the higher network layers can detect loss and request retransmission, packets are lost.

If some programming smart person wanted to create the killer app for mesh networks (ham and otherwise), a good choice would be automagic service discovery and link establishment between IRC/XMPP servers. Something like Bonjour/Avahi for service discovery and NORM for reliable multicast transport would be good places to start. NGIRCD would be a good base IRC daemon to extend or it could be done as a custom transport to an XMPP server.

73-KY9K/Brian

On 8/8/2014 03:57, ross_mazzola@... [DAWG-HSMM] wrote:
>
> Yes. I have a chat server installed on my rasberry pi connected to
> one of my mesh nodes but I ran into problems advertising the service.
> And identifying a good, easy to use client program for other people
> to install on their computers was a challenge due to my inexperience
> in this area. That's why the 'no server needed" approach was
> attractive. What chat server and clients would you recommend?
> Perhaps I should revisit that approach.

>
>
> 73,
>
> Ross
> KC2LOC
>
>

3007. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 15:17:43 UTC
From: zaphod
Topic: 2989 Message: 3007

I would like to see all of these as I can help and learn...sorry you get so many mails but, I have to agree...you can also set your mail to filter our responses to a folder and then do a mass delete if you dont want to read them.

Wireshark will only tell you what it sees you have to make the decision as to what you want the ttl to be....just remember for every device it touches subtract one from the TTL....broadcast packets work a bit different.

JMHO
Erick

From: "John w9ddd@tapr.org [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Friday, August 8, 2014 8:30 AM
Subject: Re: [DAWG-HSMM] LAN Messenger

Perhaps switching your subscription to a daily digest would give you a better experience.

Taking a discussion such as this off list is contrary to the reason some of us join the list ... to learn. While it may to old news to you some of us are just getting up to speed.

Thanks,

On 8/8/2014 6:40 AM, Ron Wallace KD5OYK@... [DAWG-HSMM] wrote:
>
>
>
> Could you please contact each other directly. I get enough emails without all
> the extra from group emails.
>
> Thanks,
>
> Ron
>
> -------- Original message --------
> From: "'w2ttt@...' w2ttt@... [DAWG-HSMM]"
> Date:08/07/2014 23:32 (GMT-06:00)
> To: "Brian D Heaton ky9k-lists@... [DAWG-HSMM]"
> Cc: Gordon Beattie
> Subject: Re: [DAWG-HSMM] LAN Messenger
>
> Have you considered using an Internet Relay Chat or IRC server and clients? We
> have with grsat success over the BBHN.
> 73,

> Gordon Beattie, W2TTT
> 201.314.6964
>
>
>
>
>
> Sent from Samsung tablet
>
>
>
> -------- Original message --------
> From: "Brian D Heaton ky9k-lists@... [DAWG-HSMM]"
> <DAWG-HSMM@yahoogroups.com>
> Date: 2014/08/08 00:24 (GMT-05:00)
> To: DAWG-HSMM@yahoogroups.com
> Subject: Re: [DAWG-HSMM] LAN Messenger
>
>
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> doesn't appear to be much in the way of protocol documentation other than
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>
> On 8/6/2014 11:59, James Hall hall.jamesr@... [DAWG-HSMM] wrote:
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>> client server. It's not video, though it sounds like there's already a
>> webcam application being run. My guess is it's either something to do with
>> the ports it requires or probably LAN messenger requires the ability to do
>> broadcasts and those are not making it through.
>>
>>
>> On Wed, Aug 6, 2014 at 2:53 PM, zaphod zaphod1@...
>> <mailto:zaphod1@...> [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com
>> <mailto:DAWG-HSMM@yahoogroups.com>> wrote:
>>
>> What ports is it trying to use? Video is going to require a TREMENDOUS
>> amount of bandwidth. Your latency may be too great for the application
>> to work and get and answer back. Its hard to say as Im only taking an
>> educated guess as to what the issue is, without a wireshark view of the
>> app trying to connect we are going to keep guessing at it.
>>
>> Erick
>>
>>
>> ----------

>> *From:* "ross_mazzola@... <mailto:ross_mazzola@...>
>> [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com <mailto:DAWG-HSMM@yahoogroups.com>>
>> *To:* DAWG-HSMM@yahoogroups.com <mailto:DAWG-HSMM@yahoogroups.com>
>> *Sent:* Wednesday, August 6, 2014 11:06 AM
>> *Subject:* [DAWG-HSMM] LAN Messenger
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>> be? Unfortunately I am not a networking guy and I'd prefer not to use a
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>> all I have to do is something the ports in nodes?
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>> Thanks & 73,
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>> Ross
>> KC2LOC&nb! sp;
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>> LAN Messenger <http://lanmsngr.sourceforge.net/>
>>
>>
>>
>> image <http://lanmsngr.sourceforge.net/>
>>
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>> LAN Messenger <http://lanmsngr.sourceforge.net/>
>> An intranet chat application that does not require a server.
>>
>> View on lanmsngr.sourcefor... <http://lanmsngr.sourceforge.net/>
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>> Preview by Yahoo
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John, W9DDD

3008. Re: LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 20:04:53 UTC
From: mjculross@...
Topic: 2989 Message: 3008

All:

We had a similar problem in a customer's production environment where, after upgrding their network to employ both multi-layered switches & virtual LANs, packets with TTL=1 were no longer propogating through their network(s) & this was significantly interfering with the ability for existing legacy applications to properly communicate.
Here's a little trick that I refined to be used to temporarily work around the problem:
Testing on machines running RHEL5.x, I verified an ad-hoc method of changing the TTL on multicast messages on-the-fly that you may be able to use for some quick testing for getting the broadcast messages through your network switches & VLANs as follows:
On the machine where the packets are originating (as root), type the following (spaces are exaggerated for clarity):

```
# iptables -t mangle -A OUTPUT -d 224.0.0.22 -j TTL --ttl-set 3 [ return ]
```

This tells the iptables utility to force the TTL parameter = 3 (you can specify whatever value you need to cause your missing messages to make it through your switches/nodes) on all messages destined for the multicast address 224.0.0.22, where (in our case) this was the destination address for the IGMP V3 queries & reports that were not propogating on the network . . . these dead-letter packets were associated with the machine's participation in the targeted multicast groups: 224.16.23.212, 224.11.23.55, 224.16.23.229, & 224.16.23.253.
Maybe trying something like this (or something along the same train of thought) may help . . . let us know if/how this works for you . . .

Mark J Culross
KD5RXT

3009. Re: [DAWG-HSMM] Re: LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 20:16:43 UTC
From: Dan Zubey
Topic: 2989 Message: 3009

Check out the bonjour protocol in pidgin.

Serverless, auto-discovered chat is an old idea that's been solved a few times. ;)

-Dan N7NMD

On Fri, Aug 8, 2014 at 1:04 PM, mjculross@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

>
>
> All:
>
>
>
> We had a similar problem in a customer's production environment where,
> after upgrding their network to employ both multi-layered switches &
> virtual LANs, packets with TTL=1 were no longer propogating through their
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> --ttl-set 3 [return]
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>
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> address 224.0.0.22, where (in our case) this was the destination address
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> participation in the targeted multicast groups: 224.16.23.212,
> 224.11.23.55, 224.16.23.229, & 224.16.23.253.

>
> Maybe trying something like this (or something along the same train of
> thought) may help . . . let us know if/how this works for you . . .
>
>
> Mark J Culross
> KD5RXT
>
>
>
>

3010. Re: [DAWG-HSMM] Re: LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-08 20:30:42 UTC
From: zaphod
Topic: 2989 Message: 3010

That would be the best way of doing it as the network is going to subtract from the TTL unless you use an MPLS type network as then then inner objects will be invisible to the ttl until it gets to the end and then the MPLS part of the packet is stripped off...thus exposing the TTL to being hit with subtractions.

Erick

From: "mjculross@sbcglobal.net [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Friday, August 8, 2014 3:04 PM
Subject: [DAWG-HSMM] Re: LAN Messenger

All:

We had a similar problem in a customer's production environment where, after upgrding their network to employ both multi-layered switches & virtual LANs, packets with TTL=1 were no longer propogating through their network(s) & this was significantly interfering with the ability for existing legacy applications to properly communicate.
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return ]
```

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Maybe trying something like this (or something along the same train of thought) may help . . . let us know if/how this works for you . . .

Mark J Culross
KD5RXT

3011. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-09 14:12:19 UTC
From: w2ttt@att.net
Topic: 2989 Message: 3011

Brian and Ross,
We had no trouble advertising the IRC server on the mesh. For some events we did not advertise the server to allow for a command channel for a select few units during the event. Mobile units can have server to server connections but you need to know who they are in advance. We've been discussing a discovery service as well as a registration service to all types of servers including IRC and VOIP. Time has been an issue for all of us, but at least we see a need. There has been work done for Directory Services which will be a good starting point.
73,
Gordon Beattie, WATT
201.314.6964

Sent via the Samsung Galaxy S® 5 ACTIVE™, an AT&T 4G LTE smartphone

-------- Original message --------
From: "Brian D Heaton ky9k-lists@ky9k.org [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:2014/08/08 10:36 (GMT-05:00)
To: DAWG-HSMM@yahoogroups.com
Cc:
Subject: Re: [DAWG-HSMM] LAN Messenger

W2TTT (Gordon) brought up the most common solution - IRC. There is a package called "ngircd" (Next Generation Internet Relay Chat Daemon) for BBHN/OpenWRT that provides the server function. On the client side, I use "Pidgin" as my IRC client on desktop (Windows/Linux/Unix). As a big plus, Pidgin supports multiple IM networks so you can learn that client once for all the different IM networks out there. On Android devices, I use "SimpleIRC". There are more complex and feature rich clients, but SimpleIRC is the easiest one to configure I found. At SEAPAC in 2013, we did a demo using IRC and had the instructions up for people attending to configure SimpleIRC and chat on the network in the room. It worked quite well.

The primary issue with IRC is that the server-to-server links have to be configured in the configuration file. This isn't a huge impediment if you put the IRC servers on fixed infrastructure nodes. For mobile deployments to areas that don't have fixed infrastructure, that can be a significant issue.

Serverless chat implementations, or perhaps better - server-based implementations with servers that find each other and setup links on the fly - are very attractive for MANET applications. Multicast works great for service discovery on wifi-based wireless networks, but not nearly as well for delivering user traffic. In 802.11 networking, every unicast wireless packet is ACKed or rebroadcast at Layer2. That function doesn't happen with multicast. Unless the higher network layers can detect loss and request retransmission, packets are lost.

If some programming smart person wanted to create the killer app for mesh networks (ham and otherwise), a good choice would be automagic service discovery and link establishment

between IRC/XMPP servers. Something like Bonjour/Avahi for service discovery and NORM for reliable multicast transport would be good places to start. NGIRCD would be a good base IRC daemon to extend or it could be done as a custom transport to an XMPP server.

73-KY9K/Brian

On 8/8/2014 03:57, ross_mazzola@hotmail.com [DAWG-HSMM] wrote:

Yes. I have a chat server installed on my rasberry pi connected to one of my mesh nodes but I ran into problems advertising the service. And identifying a good, easy to use client program for other people to install on their computers was a challenge due to my inexperience in this area. That's why the 'no server needed" approach was attractive. What chat server and clients would you recommend? Perhaps I should revisit that approach.

73,

Ross
KC2LOC

3012. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-09 19:03:47 UTC
From: Rusty Haddock
Topic: 2989 Message: 3012

'w2ttt@...' w2ttt@... [DAWG-HSMM] wrote:
>Brian and Ross,

>We had no trouble advertising the IRC server on the mesh. For
>some events we did not advertise the server to allow for a command
>channel for a select few units during the event. Mobile units can
>have server to server connections but you need to know who they
>are in advance. We've been discussing a discovery service as well
>as a registration service to all types of servers including IRC and
>VOIP. Time has been an issue for all of us, but at least we see a
>need. There has been work done for Directory Services which will
>be a good starting point.

Gordon, a discovery service for IRC would be rather difficult (not
necessarily impossible) in that the linking of IRC servers into a network
needs to prevent any circular loops of any size. In short, server A
can connect to server B and C but B and C can not then connect together.
I don't know for sure but I suspect that the IRC protocol doesn't have
a way to prevent messages from cycling throughout the network loop
indefinitely.

Just something to consider...

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

3013. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-09 23:20:11 UTC
From: ross_mazzola@...
Topic: 2989 Message: 3013

I want to start out by saying a very big THANK YOU to everyone who took the time to offer suggestions, ideas and advice about his project. After reading the various posts it looks like using LAN Messenger is going to be very difficult to get running on a BBHN and waaaayyyyyy beyond my knowledge and skill level at this point. So I decided to try the IRC server approach and I'm happy to report that it works great!

I spent a lot of time on the internet over the past few days and pulled together instructions for getting it all together:

1. I installed an IRC chat server on a Raspberry Pi connected to one of my nodes
2. I setup BBHN on the mesh node that the server is connected to
3. I installed Pidgin as the chat client on my laptop computers. I also installed Google Chrome's CIRC app which also worked.
4. I tried it out between two of my nodes. Success! I was able to send messages to everyone that joined the chat room and I was also able to send private chat messages directly to a single person in the room.

The only downside is that I will need to tell the other stations that plan to use this feature to install their favorite chat client and give them the information about my server. Someone will also have to create a chat room to get started. This should not be a big deal. I think Pidgin will be a good choice to standardize on for our ARES group because-

It's free
There's lots of support for it (tutorials and videos)
There are versions for various operating systems
There's even a portable version that doesn't even need to be installed

I plan to take this portable setup out of the shack and to the field tomorrow for a trial run with a buddy of mine.

Thanks again to everyone that chimed in. What a great hobby this is!

73 y'all

Ross
KC2LOC

3014. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-10 03:14:34 UTC
From: w2ttt@att.net
Topic: 2989 Message: 3014

Rusty,
Well of course there would need to be some form of anti-looping in the discovery system beyond the IRC protocol.
A spanning tree algorithm with an anti-looping rule in the discovery protocol could prevent looping and also delivery of duplicate messages to clients if an IRC server's client list could be exposed to the discovery protocol engine.
None of this is simple, or perfect, but if you are willing to exclude servers and clients that might be either loops or redundant, then much good could result. Interestingly enough, duplicate message paths and potential loops could be used to dynamically adjust the connectivity for improved efficiency.
Again, these algorithms are complex and rely on channel bandwidth and application CPU and memory resource monitoring to make for an optimal, and not perfect system.
73,
Gordon Beattie, W2TTT
201.314.6964

Sent from Samsung tablet

-------- Original message --------
From: "Rusty Haddock rusty@fe2o3.lonestar.org [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date: 2014/08/09 15:03 (GMT-05:00)
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] LAN Messenger

'w2ttt@att.net' w2ttt@att.net [DAWG-HSMM] wrote:
>Brian and Ross,

>We had no trouble advertising the IRC server on the mesh. For
>some events we did not advertise the server to allow for a command
>channel for a select few units during the event. Mobile units can
>have server to server connections but you need to know who they
>are in advance. We've been discussing a discovery service as well
>as a registration service to all types of servers including IRC and
>VOIP. Time has been an issue for all of us, but at least we see a
>need. There has been work done for Directory Services which will
>be a good starting point.

Gordon, a discovery service for IRC would be rather difficult (not
necessarily impossible) in that the linking of IRC servers into a network
needs to prevent any circular loops of any size. In short, server A
can connect to server B and C but B and C can not then connect together.
I don't know for sure but I suspect that the IRC protocol doesn't have
a way to prevent messages from cycling throughout the network loop
indefinitely.

Just something to consider...

```
-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

3015. Re: [DAWG-HSMM] LAN Messenger

Yahoo group: DAWG-HSMM
Date: 2014-08-10 08:31:20 UTC
From: Rusty Haddock
Topic: 2989 Message: 3015

ross_mazzola@... [DAWG-HSMM] wrote:
>I want to start out by saying a very big THANK YOU to everyone who took the time to offer suggestions, ideas and advice about his project. After reading the various posts it looks like using LAN Messenger is going to be very difficult to get running on a BBHN and waaaayyyyyy beyond my knowledge and skill level at this point. So I decided to try the IRC server approach and I'm happy to report that it works great!
>
> I spent a lot of time on the internet over the past few days and pulled together instructions for getting it all together:
>
> 1. I installed an IRC chat server on a Raspberry Pi connected to one of my nodes
> 2. I setup BBHN on the mesh node that the server is connected to
> 3. I installed Pidgin as the chat client on my laptop computers. I also installed Google Chrome's CIRC app which also worked.
> 4. I tried it out between two of my nodes. Success! I was able to send messages to everyone that joined the chat room and I was also able to send private chat messages directly to a single person in the room.

> The only downside is that I will need to tell the other stations
>that plan to use this feature to install their favorite chat client
>and give them the information about my server. Someone will also have
>to create a chat room to get started. This should not be a big deal.
>I think Pidgin will be a good choice to standardize on for our ARES
>group because-

Ross, you might want to check out my installation tutorial for 'ngircd'
for the WRT54G for answers to some of your concerns. The ngircd.conf
file allows you to create a persistent chat room at startup. Feel free
to email me directly if you have any questions.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

3016. Carpool to TAPR Digital Conference Sept 5-7

Yahoo group: DAWG-HSMM
Date: 2014-08-14 00:22:50 UTC
From: Douglas Kilgore
Topic: 3016 Message: 3016

TAPR Digital Communications Conference will be held in Austin on Sept 5
-7, 2014.

https://www.tapr.org/dccregistration.php

I would be interested in carpooling and sharing a hotel room.

Doug Kilgore KD5OUG

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

3017. 802.11ac - Whatzit?

Yahoo group: DAWG-HSMM
Date: 2014-08-15 14:16:43 UTC
From: Douglas Kilgore
Topic: 3017 Message: 3017

Reading material for a slow day.

It all started with this advertisement for the Linksys WRT1900AC:
www.tigerdirect.com/applications/SearchTools/item-details.asp?EdpNo=8992862

What is 802.11AC? So I went to:
http://en.wikipedia.org/wiki/IEEE_802.11ac

A 160 Mhz channel! Wow!

From there I read:
http://www.theruckusroom.net/2010/12/beamforming-in-all-its-glory.html

And here I am with a lowly Linksys WRT54G.

Doug KD5OUG

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

3018. Meeting?

Yahoo group: DAWG-HSMM
Date: 2014-08-22 19:40:39 UTC
From: Rusty Haddock
Topic: 3018 Message: 3018

What do y'all say? Next Tuesday, August 26th at Dickey's in McKinney
at 7pm?

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

3019. Re: [DAWG-HSMM] Meeting?

Yahoo group: DAWG-HSMM
Date: 2014-08-22 19:58:27 UTC
From: zaphod
Topic: 3018 Message: 3019

I wont be able to attend...sorry.

Erick

From: "Rusty Haddock rusty@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Friday, August 22, 2014 2:40 PM
Subject: [DAWG-HSMM] Meeting?

What do y'all say? Next Tuesday, August 26th at Dickey's in McKinney
at 7pm?

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

3020. Banquet Speaker & Sunday Seminar Annouced at ARRL/TAPR DCC (Digital Communications Conference), Austin, TX, 9/5 - 9/7

Yahoo group: DAWG-HSMM
Date: 2014-08-24 18:31:53 UTC
From: Mark Thompson
Topic: 3020 Message: 3020

The 2014 ARRL/TAPR DCC Saturday Night Banquet Speaker & Topic will be
Gerald Youngblood, K5SDR presenting "Accidental Company, the making of Flex Radio"

----- Forwarded Message -----
From: Stan Horzepa <stanzepa@sbcglobal.net>
To: tapr-announce@...
Sent: Friday, August 15, 2014 7:12 AM
Subject: [tapr-announce] DCC in 3 weeks

The 2014 ARRL/TAPR DCC will be on Friday, September 5th through Sunday, September 7th at the Austin Marriott South in Austin, Texas.

The DCC has two days of technical forums on Friday and Saturday and a concurrent introductory forum on Saturday.

On Saturday night, the banquet will feature an interesting speaker andthe Sunday morning seminar will be "Introduction to SoC FPGA Programming for Mixed Signal Systems" by Chris Testa, KD2BMH.

There will be free tables in the demo room to demonstrate projects and vendors to demonstrate products.

Time is running out, so those interested in attending should register for the DCC and make hotel reservations ASAP.

More DCC information is available at: www.tapr.org/dcc

---
tapr-announce mailing list

3021. Re: [DAWG-HSMM] Meeting?

Yahoo group: DAWG-HSMM
Date: 2014-08-26 22:58:24 UTC
From: Rusty Haddock
Topic: 3018 Message: 3021

Rusty Haddock rusty@... [DAWG-HSMM] wrote:
>What do y'all say? Next Tuesday, August 26th at Dickey's in McKinney
>at 7pm?

Given the lack of input from anybody (except one on the list and three
people directly to me, to say they can't/won't make it) I truly don't
see any good reason for having a meeting tonight.

MEETING IS CANCELED.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

3022. Summer 2014 TAPR PSR Digital Communications Journal Available

Yahoo group: DAWG-HSMM
Date: 2014-08-27 00:14:06 UTC
From: Mark Thompson
Topic: 3022 Message: 3022
Attachments: 1 described; binary payloads are missing from this source WARC

Summer 2014
TAPR PSR Digital Communications Journal
Available

http://www.tapr.org/psr/psr126.pdf

3023. Re: [DAWG-HSMM] Meeting?

Yahoo group: DAWG-HSMM
Date: 2014-08-27 02:11:49 UTC
From: zaphod
Topic: 3018 Message: 3023

That is too bad such little input to the meeting but, hopefully next month will be better...give me a ring some time I have some questions for you rusty.

Erick

From: "Rusty Haddock rusty@fe2o3.lonestar.org [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Tuesday, August 26, 2014 5:58 PM
Subject: Re: [DAWG-HSMM] Meeting?

Rusty Haddock rusty@... [DAWG-HSMM] wrote:
>What do y'all say? Next Tuesday, August 26th at Dickey's in McKinney
>at 7pm?

Given the lack of input from anybody (except one on the list and three
people directly to me, to say they can't/won't make it) I truly don't
see any good reason for having a meeting tonight.

MEETING IS CANCELED.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

3024. Demonstrating HSMM at the ARRL/TAPR DCC in Austin, TX on 9/5 - 9/7

Yahoo group: DAWG-HSMM
Date: 2014-08-27 14:34:48 UTC
From: Mark Thompson
Topic: 3024 Message: 3024

For those of you using & innovating HSMM technology in Texas
TAPR encourages you to attend the Digital Communications Conference in Austin on 9/5 - 9/7
and demonstrate & display your technology & projects in the DCC Demonstration room.
DCC Demonstration Room
Each year at the DCC a separate (and lockable) room is provided for people to bring and
show off their latest projects.
Tables and power will be provided.
Bring your equipment and display for all to see, learn, and ask questions about.
Be sure to bring a small sign and/or flyer naming and describing your project.

You can learn more about the DCC at: www.tapr.org/dcc

By the way, TAPR's Business Office is located in Texas in the Dallas area.

Look forward to seeing many of you in Austin!!

3025. DCC Proceedings Abstracts Announced - 2014 ARRL/TAPR Digital Communications Conference Austin, TX September 5-7, 2014

Yahoo group: DAWG-HSMM
Date: 2014-08-27 14:41:55 UTC
From: Mark Thompson
Topic: 3025 Message: 3025

http://www.tapr.org/pub_dcc33.html

DCC Proceedings Abstracts:
33rd ARRL and TAPR Digital Communications Conference
September 5-7, 2014

High-Speed Wireless Networking in the UHF and Microwave Bands
by David Bern, W2LNX and Keith Elkin, KB3TCB
Abstract: This paper discusses building an amateur radio wireless network using commercial off the shelf wireless networking equipment that is currently available. As an example, four Ubiquiti NanoStation M3 3.4 GHz digital radios are used to assemble a demonstration network of two wireless network links that operate on two different frequencies. In conclusion, the paper invites the amateur radio community to build a nationwide highspeed amateur radio wireless backbone network to connect all local amateur radio area community wireless networks.
Proceedings Paper

Clarifying the Amateur Bell 202 Modem
by Kenneth W. Finnegan, W6KWF and Bridget Benson, PhD

The Stream Control Transmission Protocol (SCTP) and Its Potential for Amateur Radio
by Eduardo Gonzalez , Dr Stan McClellan and Dr Wuxu Peng

SDR-based DATV-Express Exciter for Digital-ATV
by Ken Konechy, W6HHC

A Radioteletype Over-Sampling Software Decoder for Amateur Radio
by Joseph J. Roby, Jr, K0JJR

An HF Frequency-Division Multiplex (FDM) Modem
by Steven Sampson, K5OKC

Modulation - Demodulation Software Radio
by Alex Schwarz VE7DXW and Guy Roels ON6MU

Installing a LIF port into the FT-950 transceiver
by Alex Schwarz, VE7DXW

Installing a LIF port into the IC-756ProIII transceiver
by Alex Schwarz, VE7DXW

The European HAMNET - A Large Scale High Speed Radio Network
by Jann Traschewski, DG8NGN

Implementation of Basic Analog and Digital Modulation Schemes using a SDR Platform
by Jose M. Valencia and Omar H. Longoria

3026. ARRL/TAPR DCC Speaker Schedule Announced, Austin, TX, 9/5 - 9/7/14 (Walk-In Registrations at DCC Welcome)

Yahoo group: DAWG-HSMM
Date: 2014-08-29 19:20:51 UTC
From: Mark Thompson
Topic: 3026 Message: 3026
Attachments: 2 described; binary payloads are missing from this source WARC

DCC Speaker Schedule Announced

2014 ARRL/TAPR Digital Communications Conference
Austin, TX
September 5 - 7, 2014
http://www.tapr.org/pdf/DCC_2014_Schedule_2014-08-27.pdf

Register for the DCC
Walk-in registrations at DCC are very welcome.

Online Registration Form

https://www.tapr.org/dccregistration.php

Pre-registration will close on August 30thto allow the office staff to complete preparations (print badges and stuff envelopes) and travel to the conference.

Use of the on-line registration form after August 30th is encouraged,
as it will save time at the registration desk filling in hard copy forms and wait for credit card processing..

Tucson Amateur Packet Radio
Phone: (972) 671-TAPR (8277)
Contact TAPR Office: http://www.tapr.org/inforequest.php

3027. Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2014-08-31 17:42:05 UTC
From: Kipton Moravec
Topic: 165 Message: 3027

Like other years we will have a MESH system for the Plano Balloon Festival. The Balloon Festival will be Friday September 19, through Sunday September 21.

The weekend before I will get together with the church and get the system operating on the roof of the church.

Thursday night September 18, I will connect up the Communications trailer and the Special Event's trailer.

In addition we will have a WiFi node outside both trailers for hams to connect with their laptops directly. These will NOT be open nodes.

At the communications trailer, the WiFi link it will be for the field operations tent. This is how we did it last year and it had the benefit that there was no setup for us at the field operations.

At the Special Event Trailer the WiFi node will be for experimentation to see if it could help the ramp operator.

If you have any non- 2.4 GHz band MESH equipment using the new SW you want use for this event let me know.

I could use some help on Thursday night starting about 5:30 p.m.

Kip

3028. Re: [DAWG-HSMM] Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2014-08-31 21:42:38 UTC
From: Jimmy Dominguez
Topic: 165 Message: 3028

Kip, there will be no Ramp Operator this year. Cussed and discussed on the PBF Staff email group.

Jimmy
ke5peq

On Sun, Aug 31, 2014 at 12:42 PM, Kipton Moravec kip@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

>
>
> Like other years we will have a MESH system for the Plano Balloon
> Festival. The Balloon Festival will be Friday September 19, through
> Sunday September 21.
>
> The weekend before I will get together with the church and get the
> system operating on the roof of the church.
>
> Thursday night September 18, I will connect up the Communications
> trailer and the Special Event's trailer.
>
> In addition we will have a WiFi node outside both trailers for hams to
> connect with their laptops directly. These will NOT be open nodes.
>
> At the communications trailer, the WiFi link it will be for the field
> operations tent. This is how we did it last year and it had the benefit
> that there was no setup for us at the field operations.
>
> At the Special Event Trailer the WiFi node will be for experimentation
> to see if it could help the ramp operator.
>
> If you have any non- 2.4 GHz band MESH equipment using the new SW you
> want use for this event let me know.
>
> I could use some help on Thursday night starting about 5:30 p.m.
>
> Kip
>
>
>

3029. ARRL/TAPR DCC (Digital Communications Conference), Austin, TX 9/5 - 9/7/14 (WALK-IN REGISTRATIONS WELCOME)

Yahoo group: DAWG-HSMM
Date: 2014-09-03 03:14:59 UTC
From: Mark Thompson
Topic: 3029 Message: 3029
Attachments: 4 described; binary payloads are missing from this source WARC

ARRL/TAPR DCC
(Digital Communications Conference)

Friday, September 5 - Sunday, September 7

Marriott South
Austin, TX

TAPR, the national Digital Communications educational & advocacy organization
is holding the annual Digital Communications Conference
this weekend at the Austin Marriot South.

TAPR would appreciate if you would make hams in Texas aware of the DCC and

forward this announcement to other clubs & groups.

Walk-In Registrations Welcome at DCC!!

https://www.tapr.org/dccregistration.php

Gerald Youngblood, K5SDR of FlexRadio is the Saturday night banquet speaker.

DCC Forum Schedule

http://www.tapr.org/pdf/DCC_2014_Schedule_2014-08-27.pdf

DCC Information
http://www.tapr.org/dcc

3030. Re: Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2014-09-03 20:45:55 UTC
From: Michael Pruden
Topic: 165 Message: 3030

Hi Kip:

I am working with the PBF Special Event Station, and am planning on bringing my two newly reconfigured mesh nodes for use at the Spec Evt Station. I should be availableThursday evening after. 5:30 PM. Give me a call if you need to coordinate before then .

Mike Pruden
NN5ZZ
(972)765-2258

Sent from my iPhone

3031. Re: Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2014-09-16 15:45:45 UTC
From: KC5DFC
Topic: 165 Message: 3031

Kip,
I have been stuck with out of town work and wasn't sure if I could make it out to help setup this year. As it turns out I can assist this Thursday if you still need the help. I have the 3.5Gig radios if you want to go with the same setup as last year and I have a handful of other nodes we can use. Let me know what you need and I will put together what I can.

Ian Stubbs
KC5DFC

3032. Re: Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2014-09-16 21:31:56 UTC
From: kip@...
Topic: 165 Message: 3032

That would be super. I can not get access to the church on Thursday because Randy my contact will be in Austin. But I will be setting up the Comm Trailer on Thursday night and the Special Event trailer Friday morning. I may be able to get church access Friday morning again. The 2.4 GHz node is already in place.at the church because I knew Randy was going to be out of town.

I am checking my second 24 db node tonight. If it is O.K. I will use that at the Comm Trailer. If it is not working I need plan B.

A 15 db Rootenna is good for the Special Event station. They are much closer.

Kip

3033. Re: Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2014-09-16 21:33:18 UTC
From: kip@...
Topic: 165 Message: 3033

What do you have for an antenna?

Need at least 15 DB directional antenna for the Special Event station.

Kip

3034. No digital Tuesday Meeting tonight

Yahoo group: DAWG-HSMM
Date: 2014-09-16 21:49:19 UTC
From: kip@...
Topic: 3034 Message: 3034

The day snuck up on me, and I did not make any plans for Digital Tuesday, plus I have to get ready for Plano Balloon Festival.

So no meeting this month.

Kip

3035. HamCom for 2015 is moving...

Yahoo group: DAWG-HSMM
Date: 2014-09-23 19:53:31 UTC
From: Rusty Haddock
Topic: 3035 Message: 3035

FYI...

If you haven't seen or heard the news, Hamcom for next year will be at the new Irving Convention Center. The announcement is on the front page of http://hamcom.org. Having to turn away vendors last year and realizing that the 'fest has outgrown the Plano Convention Center are the reasons cited for moving. The dates will be June 12 & 13 (Friday & Saturday).

For those flying into DFW, this will be much closer to either airport with more choices for hotels.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

3036. Re: [DAWG-HSMM] HamCom for 2015 is moving...

Yahoo group: DAWG-HSMM
Date: 2014-09-23 20:26:01 UTC
From: zaphod
Topic: 3035 Message: 3036

Wondered when they would realize that...Plano is just way to small to really be useful to such a big venue.

Erick

_____
From: "Rusty Haddock rusty@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Tuesday, September 23, 2014 2:53 PM
Subject: [DAWG-HSMM] HamCom for 2015 is moving...

FYI...

If you haven't seen or heard the news, Hamcom for next year will be at the new Irving Convention Center. The announcement is on the front page of http://hamcom.org. Having to turn away vendors last year and realizing that the 'fest has outgrown the Plano Convention Center are the reasons cited for moving. The dates will be June 12 & 13 (Friday & Saturday).

For those flying into DFW, this will be much closer to either airport with more choices for hotels.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

3037. Re: [DAWG-HSMM] HamCom for 2015 is moving...

Yahoo group: DAWG-HSMM
Date: 2014-09-23 20:36:41 UTC
From: Rusty Haddock
Topic: 3035 Message: 3037

zaphod zaphod1@... [DAWG-HSMM] wrote:
>Wondered when they would realize that...Plano is just way to small to really be useful to such a big venue.
>
>Erick

When they left the convention center in Arlington, filling up half the space was quite a task. It's good that it has grown back up in size!

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

3038. how-hong-kong-protesters-are-connecting-without-cell-or-wi-fi-networks

Yahoo group: DAWG-HSMM
Date: 2014-10-01 22:37:47 UTC
From: Douglas Kilgore
Topic: 3038 Message: 3038

How would you link BBHN to FireChat?
http://www.npr.org/blogs/alltechconsidered/2014/09/29/352476454/how-hong-kong-protesters-are-connecting-without-cell-or-wi-fi-networks

Doug

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

3039. Re: [DAWG-HSMM] how-hong-kong-protesters-are-connecting-without-cell-or-wi-fi-networks

Yahoo group: DAWG-HSMM
Date: 2014-10-02 04:36:04 UTC
From: Rusty Haddock
Topic: 3038 Message: 3039

Douglas Kilgore kilgore1317@... [DAWG-HSMM] wrote:
>How would you link BBHN to FireChat?
>http://www.npr.org/blogs/alltechconsidered/2014/09/29/352476454/how-hong-kong-protesters-are-connecting-without-cell-or-wi-fi-networks
>
>Doug

What makes you think the protocols are compatible? Especially with encryption being used in FireChat. :)

What would bother me is that the application "may" want to access your GPS? That's a really GREAT idea for protestors and dissidents using such a network.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

3040. Digital Tuesday In Lucas!

Yahoo group: DAWG-HSMM
Date: 2014-10-20 15:44:54 UTC
From: kip@...
Topic: 3040 Message: 3040

We will have Digital Tuesday in Lucas.

One of the items is that the MESH nodes need a server to help share informations.

Rusty will be presenting how to build a Wiki for sharing information on a Raspberry Pi connected to the mesh network.

The same technique can be used for any Linux computer, but the Pi is a lot smaller. Better for deployment.

We will start at 6:30 p.m.
299 Connor Lane,
Lucas, TX, 75002

299 Connor Ln, Allen, TX 75002 - Google Maps https://www.google.com/maps/place/299+Connor+Ln,+Allen,+TX+75002/@33.076409,-96.573174,17z/data=!3m1!4b1!4m2!3m1!1s0x864c055226fd33e7:0xdc8b24067f20d469?hl=en

https://www.google.com/maps/place/299+Connor+Ln,+Allen,+TX+75002/@33.076409,-96.573174,17z/data=!3m1!4b1!4m2!3m1!1s0x864c055226fd33e7:0xdc8b24067f20d469?hl=en

299 Connor Ln, Allen, TX 75002 - Google Maps https://www.google.com/maps/place/299+Connor+Ln,+Allen,+TX+75002/@33.076409,-96.573174,17z/data=!3m1!4b1!4m2!3m1!1s0x864c055226fd33e7:0xdc8b24067f20d469?hl=en Find local businesses, view maps and get driving directions in Google Maps

View on www.google.com https://www.google.com/maps/place/299+Connor+Ln,+Allen,+TX+75002/@33.076409,-96.573174,17z/data=!3m1!4b1!4m2!3m1!1s0x864c055226fd33e7:0xdc8b24067f20d469?hl=en
Preview by Yahoo

Come through the back gate, around the pool to the pool house.

Kip

3041. Re: Digital Tuesday In Lucas!

Yahoo group: DAWG-HSMM
Date: 2014-10-21 19:42:10 UTC
From: kip@...
Topic: 3040 Message: 3041

Reminder tonight is Digital Tuesday in Lucas. 6:30

3042. Digital Tuesday Tonight in McKinney

Yahoo group: DAWG-HSMM
Date: 2014-11-18 22:09:34 UTC
From: kip@...
Topic: 3042 Message: 3042

This just does not want to post.

Try number 3.

Digital Tuesday tonight Dicky's BBQ McKinney 6:30 p.m.

Kip

3043. Digital Tuesday Meeting tonight in Dicky's BBQ in Mckinney

Yahoo group: DAWG-HSMM
Date: 2014-11-18 22:20:18 UTC
From: kip@...
Topic: 3043 Message: 3043

I do not know what happened to the email I posted earlier, but it did not seem to appear on the list.

Digital Tuesday tonight 6:30 Dicky's BBQ on 75/Central Expressway in McKinney.

Kip

3044. Re: [DAWG-HSMM] Digital Tuesday Meeting tonight in Dicky's BBQ in Mckinney

Yahoo group: DAWG-HSMM
Date: 2014-11-19 01:39:49 UTC
From: zaphod
Topic: 3043 Message: 3044

let me know what yall did, I'm still trying to recover from being sick.

Thanks,
Erick

From: "kip@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Tuesday, November 18, 2014 4:20 PM
Subject: [DAWG-HSMM] Digital Tuesday Meeting tonight in Dicky's BBQ in Mckinney

I do not know what happened to the email I posted earlier, but it did not seem to appear on the list.

Digital Tuesday tonight 6:30 Dicky's BBQ on 75/Central Expressway in McKinney.

Kip

3045. Fw: Broadband-Hamnet Expands to Include Yet Another Ham Band

Yahoo group: DAWG-HSMM
Date: 2014-11-23 23:09:43 UTC
From: Mark Thompson
Topic: 3045 Message: 3045

----- Forwarded Message -----
From: Broadband-HamnetTM <webmaster@broadband-hamnet.org>
To: webmaster@...
Sent: Friday, November 21, 2014 10:57 AM
Subject: Broadband-Hamnet Expands to Include Yet Another Ham Band

Broadband-Hamnet is proud to announce a new firmware release, the most recent in a series of advancements that build on the Ubiquiti firmware released for the 2.4GHz and 5.8 GHz Ham bands earlier this year.

With this BBHN 3.0.0 release, Broadband-Hamnet now includes the Ubiquiti M9-series airMAX devices, giving Hams use of the 900 MHz band for mesh networking.

Among the release’s new features is the ability to easily control the spectrum utilization of the RF links.

Please visit http://www.Broadband-Hamnet.org for more information.

3046. HAMRADIO NOW Video: "NW Digital Radio's UDRX-440 UHF Data Radio & New DV3000 D-STAR Module Update" by Brian, K7UDR & John, K7VE at 2014 ARRL/TAPR DCC (Digital Communications Conference), Austin, TX

Yahoo group: DAWG-HSMM
Date: 2014-11-24 07:19:55 UTC
From: Mark Thompson
Topic: 3046 Message: 3046

HAMRADIO NOW Video
High Speed Ham Radio Networks on UHF and Microwave Bands
by David Bern, W2LNX
at 2014 ARRL/TAPR DCC (Digital Communications Conference), Austin, TX
http://arvideonews.com/hrn/HRN_Episode_0176.html

More Information about TAPR & the DCC at: www.tapr.org

3047. RESEND: HAMRADIO NOW Video: (Corrected) "High Speed Ham Radio Networks on UHF and Microwave Bands" by David Bern, W2LNX at 2014 ARRL/TAPR DCC (Digital Communications Conference), Austin, TX

Yahoo group: DAWG-HSMM
Date: 2014-11-24 07:29:30 UTC
From: Mark Thompson
Topic: 3046 Message: 3047

HAMRADIO NOW Video
High Speed Ham Radio Networks on UHF and Microwave Bands
by David Bern, W2LNX
at 2014 ARRL/TAPR DCC (Digital Communications Conference), Austin, TX
http://arvideonews.com/hrn/HRN_Episode_0176.html

More Information about TAPR & the DCC at: www.tapr.org

3048. How to flash HSMM on Router running OpenWrt with no GUI

Yahoo group: DAWG-HSMM
Date: 2014-11-25 04:49:52 UTC
From: n2mss@...
Topic: 3048 Message: 3048

Hi,

I have given up trying to figure this out and now asking for assistance.

I successfully flashed a WRT54G V3 with OpenWrt. Since this was done a last year, I do not remember what version of OpenWrt I used. I would like to put BH3.0 on this unit.

There is a command line and everything appears to be working fine. It is my understanding that I need to load up a GUI, this is something I have no idea how to proceed with and instructions I have seen do not get me very far.

Or, are there command line instructions I can issue to manually flash the .BIN file?

Note: I have other routers running OpenWrt, they have a nice GUI and flashing them to HSMM is very straight forward. But these routers already had OpenWrt installed on them. It appears the version I put on it either does not have a GUI or it needs to be executed somehow.

Let me know if I have explained this issue clearly.

Thanks - Hank - N2MSS

3049. Re: [DAWG-HSMM] How to flash HSMM on Router running OpenWrt with no GUI

Yahoo group: DAWG-HSMM
Date: 2014-11-25 09:00:32 UTC
From: Rusty Haddock
Topic: 3048 Message: 3049

n2mss@... [DAWG-HSMM] wrote:
>Hi,
>
> I have given up trying to figure this out and now asking for assistance.
>
> I successfully flashed a WRT54G V3 with OpenWrt. Since this was done a last year, I do not remember what version of OpenWrt I used. I would like to put BH3.0 on this unit.
>
> There is a command line and everything appears to be working fine. It is my understanding that I need to load up a GUI, this is something I have no idea how to proceed with and instructions I have seen do not get me very far.

Hank,
Did you check for a web interface on port 80 (the normal HTTP port)
after you connected your PC to one of the '54G's LAN ports?

Also, in the directory '/etc' there should be a file named somethign
like openwrt.version or something similar. This or the command 'uname
-a' can tell you what version of OpenWRT you're running.

See if the file '/etc/init.d/httpd' exists in the system. If it does
run this command:

```
/etc/init.d/httpd status
```

If the web server is not running then start it with:

```
/etc/init.d/httpd start
```

This should startup the GUI and allow you to load the BBHN .trx file,
not the .bin.

> Or, are there command line instructions I can issue to manually flash the .BIN file?

IF the GUI was not installed (or was removed after installation)
then copy the BBHN .trx file in /tmp (with 'scp' or 'winscp32' under
Windows) and run the command:

```
mtd write /tmp/*.trx linux
```

and, if successful, run the 'reboot' command. Make sure that /tmp is
a ram filesystem otherwise the .trx file will not get loaded completely.

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the

```
| ( -< O o Van Alstyne (TX) Metropolitan Area
|/\__V__/ Math illiteracy affects 7 out of 5 people!
```

3050. No December Digital Tuesday meeting

Yahoo group: DAWG-HSMM
Date: 2014-12-14 19:30:05 UTC
From: kip@...
Topic: 3050 Message: 3050

I just got back from 11 days in Germany, and the PARK Christmas party is Monday (6:00 p.m. Furr's on Central in Plano, anyone can attend. Members paid for next year get 1 raffle ticket, and you can purchase tickets! Lots of raffle prizes. Good chance to win -- better than 1 in 10, Lotto can not claim that!)

But there is no time to find anything interesting for Digital Tuesday, and people are busy so close to Christmas.

So no meeting on Tueday!

Kip

3051. Training Net to Test New Digital Messaging Software Using Android Operating system

Yahoo group: DAWG-HSMM
Date: 2015-02-17 20:42:22 UTC
From: Douglas Kilgore
Topic: 3051 Message: 3051

The Dallas NBEMS Learning Net (DNLN) will be operating from the Richardson EOC on Wednesday, Feb18 at 7:30pm. The net will be using FlDigi software suite to send and receive digital messages over the air. One segment of the evening net will test the simplex range of the radios in the EOC.

For users of Android devices (cellphone/tablets), a new app under development called AndFlmsg will be used to send and receive formatted messages over ham radio. This app will allow the ham operator to literally have a portable data messaging terminal in his pocket.

Details about how to obtain and load AndFlmsg to an Android device is described in the fact sheet at:
http://k5rwk.org/rwk01/attachments/article/23/DNLN%20Android%20Instuctions.txt

Ham operators from all over the North Texas area are encouraged to participate.

When: Wed. Feb 18, 7:30 pm
Freq: Check in on 147.12 Mhz repeater - No PL
then change to 145.70 Simplex as directed

Doug Kilgore KD5OUG
kd5oug@...

This email has been checked for viruses by Avast antivirus software.
http://www.avast.com

3052. Using MESH to map a drive?

Yahoo group: DAWG-HSMM
Date: 2015-02-17 22:36:06 UTC
From: patrick@...
Topic: 3052 Message: 3052

Hey everyone,

Who has developed an application that uses the MESH conduit as the source of data?

Has this been done by connecting a computer to a drive mapping that utilizes MESH as the communications medium?

Just looking to collaborate a little.

Thanks and 73,
Patrick
KM5L

3053. Re: [DAWG-HSMM] Using MESH to map a drive?

Yahoo group: DAWG-HSMM
Date: 2015-02-18 15:39:21 UTC
From: zaphod
Topic: 3052 Message: 3053

in what regards are you trying to do this, I have done it just to move files around but, its SLOW and sometimes creates issues.

Erick

From: "patrick@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Tuesday, February 17, 2015 4:36 PM
Subject: [DAWG-HSMM] Using MESH to map a drive?

Hey everyone,

Who has developed an application that uses the MESH conduit as the source of data?

Has this been done by connecting a computer to a drive mapping that utilizes MESH as the communications medium?

Just looking to collaborate a little.

Thanks and 73,
Patrick
KM5L

3054. Re: [DAWG-HSMM] Using MESH to map a drive?

Yahoo group: DAWG-HSMM
Date: 2015-02-19 02:33:51 UTC
From: Kipton Moravec
Topic: 3052 Message: 3054

I do not understand what you are trying to do either.

I have used it to send pictures during a Bike Rally. One link was 10 miles and the other 5 miles.

I have used it to operate a remote PSK station during Field Day.

So is that a "source of data"?

Kip

On 02/17/2015 04:36 PM, patrick@... [DAWG-HSMM] wrote:
>
>
> Hey everyone,
>
>
> Who has developed an application that uses the MESH conduit as the
> source of data?
>
>
> Has this been done by connecting a computer to a drive mapping that
> utilizes MESH as the communications medium?
>
>
> Just looking to collaborate a little.
>
>
> Thanks and 73,
>
> Patrick
>
> KM5L
>
>
>
>

3055. Re: [DAWG-HSMM] Using MESH to map a drive?

Yahoo group: DAWG-HSMM
Date: 2015-02-19 04:55:57 UTC
From: patrick@...
Topic: 3052 Message: 3055

Thanks guys, I'm not clear enough. I'm not talking about either of those.

Here's what I'm saying...

You know how you have a "C" drive? or some external USB drive, say "P" or something.

Ok, when you run any app, such as Quicken, you located the file on the map C drive, such as C:/quicken/ ?

Now, what I'm saying is... do you all know anyone that has used MESH as the "conduit" to create the link, and specialized drive mapping, so that an application can point to it?

Like.. X://Mesh/data and THAT path fully visible by anyone that has created the drive map.

Maybe it's already there...

To help clarify. I'm trying to brainstorm a way to develop a common drive map so that in a disaster scenario the "shared" drive is accessible by certain stations. The data then would be shared.

Make sense?

With MESH the speed should be very good, I'd think.

73,
Patrick KM5L

3056. Re: [DAWG-HSMM] Using MESH to map a drive?

Yahoo group: DAWG-HSMM
Date: 2015-02-19 04:57:16 UTC
From: patrick@...
Topic: 3052 Message: 3056

maybe a little bit more.

We might could have a MySQL database located on the drive map.... how now?

3057. Re: [DAWG-HSMM] Using MESH to map a drive?

Yahoo group: DAWG-HSMM
Date: 2015-02-19 12:53:56 UTC
From: Erick
Topic: 3052 Message: 3057

Linux or windows ?
Each has things that will cause problems with this.
1. Permissions might be stripped off in transit.
2. The flaky connection of the nodes will cause drops which will slow diwn the transfer so bad that it will cause slowness beyond what a database will tolerate.
3. If this is for emergencies then simple doc files and messages are what I would be wanting to see
4. When there are multiple users on the limited bandwidth your speed will suffer so bad that some of the nodes run the risk of resetting or falling off the network.

Just some of the issues you will run into, not to even go to the latency of the computer hosting the files.

Erick

Sent from the aquarium

> On Feb 18, 2015, at 10:57 PM, patrick@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:
>
> maybe a little bit more.
>
>
> We might could have a MySQL database located on the drive map.... how now?
>

3058. Participate in Sat. Mar. 28 Field Trip to Dallas Makerspace

Yahoo group: DAWG-HSMM
Date: 2015-03-14 06:04:10 UTC
From: Douglas Kilgore
Topic: 3058 Message: 3058

A field trip of interest to ham operators in the North Texas area has been planned to visit the Dallas Makerspace on Saturday morning, Mar. 28. You may have heard the term Makerspace. Here's a chance to see what it is. http://dallasmakerspace.org/

Dallas Makerspace is 501(c)(3) non-profit shared community workshop and laboratory located in Carrollton, TX. Open 24/7 to members, the workshops have various pieces of industrial tools too large and too expensive to have in a home workshop. Classes are also conducted on various topics (ham radio included).

A special Open House for hams has been arranged to show off the various tools available in the Makerspace labs. You'll see the electronics lab, 3-D printing, a laser cutter, a large woodworking and welding shop, a plasma cutter, and whole bunch of other stuff.

Here's the itinerary for the field trip on Saturday morning, Mar. 28:

8:00am Breakfast at Taco Cabana, 18130 Coit Rd, Dallas, TX 75252
(SE corner of Coit and 190) meet and greet

9:30am Dallas Makerspace, 1825 Monetary Lane # 104, Carrollton, TX 75006

11:00am Tanners Electronics, 1100 Valwood Pkwy #100, Carrollton, TX 75006

The Makerspace volunteers that will be hosting us need to know how many are coming.

So, if you are planning to attend, please send an EMAIL with your name, Callsign and phone number to:
Doug Kilgore KD5OUG (kd5oug@...>

My phone is 214-770-2394 Cell

THIS WILL BE A FUN MORNING!
73

Doug

This email has been checked for viruses by Avast antivirus software.
http://www.avast.com

3059. Moving Forward

Yahoo group: DAWG-HSMM
Date: 2015-03-19 00:11:38 UTC
From: n5tim@...
Topic: 3059 Message: 3059

See the news at Broadband-Hamnet http://hsmm-mesh.org

http://hsmm-mesh.org

Broadband-Hamnet http://hsmm-mesh.org Broadband-Hamnet - Amateur Radio Mesh Networking

View on hsmm-mesh.org http://hsmm-mesh.org
Preview by Yahoo

about moving forward.

73, John - N5TIM

3060. Re: [DAWG-HSMM] Moving Forward

Yahoo group: DAWG-HSMM
Date: 2015-03-19 05:56:37 UTC
From: Rusty Haddock
Topic: 3059 Message: 3060

More news is coming shortly!!!

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

3061. Help with Virtual Tunnel

Yahoo group: DAWG-HSMM
Date: 2015-03-25 17:22:40 UTC
From: Jim
Topic: 3061 Message: 3061

DAWG

A group of us in Parker County would like to set up a virtual tunnel to move llHDE video from three critical intersections in the center of the county to the Ride for the Heroes Race support group in the eastern part of the county. We could use a kick start. If someone could call me at 817 713 9928 I would appreciate it.

Jim
W0UO

3062. Fw: [DAWG-HSMM] Help with Virtual Tunnel

Yahoo group: DAWG-HSMM
Date: 2015-03-25 18:45:27 UTC
From: Dallas KD4HNX
Topic: 3061 Message: 3062

To Austin BBHN folks...If sending configure and tested hardware to Weatherford is needed, my wife will be going there on Sunday...

73 Dallas, KD4HNX
Whatever you do, don’t fall victim to “paralysis by analysis.” Go ahead and buy/build one and start tinkering with it. This is a learn by doing hobby.

No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!
----- Forwarded Message -----
From: "Jim w0uo@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Wednesday, March 25, 2015 12:22 PM
Subject: [DAWG-HSMM] Help with Virtual Tunnel

DAWG

A group of us in Parker County would like to set up a virtual tunnel to move llHDE video from three critical intersections in the center of the county to the Ride for the Heroes Race support group in the eastern part of the county. We could use a kick start. If someone could call me at 817 713 9928 I would appreciate it.

Jim
W0UO

3063. Help with next step

Yahoo group: DAWG-HSMM
Date: 2015-04-01 19:42:18 UTC
From: patrick@...
Topic: 3063 Message: 3063

Hey everyone, I've got my Router working, but just on the routers built in antennas. So basically I've not been able to do a darn thing with it :(

Can someone recommend an inexpensive way to put the router up in the air and recommend a low cost antenna? Even possibly someone to "shoot" at?

Thanks and 73,
Patrick KM5L

3064. RE: [DAWG-HSMM] Help with next step

Yahoo group: DAWG-HSMM
Date: 2015-04-01 20:41:07 UTC
From: Bill Hagebusch
Topic: 3063 Message: 3064

I have successfully used some 2.4ghz yagis from eBay. They were cheap in every sense of the word but they worked. I seriously doubt their gain claims but they suffice. I’ve also used verticals, both home-built and purchased. Plans are available on the ‘net.

For field day use and for testing, I have put the antennas on a painter pole and/or a push-up pole with the router down toward the base. This is a bit lossy though. I’ve also put the router up on a mast, close to the antennas. I like to use a yagi and an omnidirectional together.

Bill

KE5ZVF

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com]
Sent: Wednesday, April 01, 2015 2:42 PM
To: DAWG-HSMM@yahoogroups.com
Subject: [DAWG-HSMM] Help with next step

Hey everyone, I've got my Router working, but just on the routers built in antennas. So basically I've not been able to do a darn thing with it :(

Can someone recommend an inexpensive way to put the router up in the air and recommend a low cost antenna? Even possibly someone to "shoot" at?

Thanks and 73,

Patrick KM5L

3065. RE: [DAWG-HSMM] Help with next step

Yahoo group: DAWG-HSMM
Date: 2015-04-03 05:39:57 UTC
From: patrick@...
Topic: 3063 Message: 3065

Hi Bill,

Something like this? 2.4GHz 20dBi Yagi 802.11b/g WiFi Antenna RP-SMA WLAN http://www.ebay.com/itm/2-4GHz-20dBi-Yagi-802-11b-g-WiFi-Antenna-RP-SMA-WLAN-/190836223385?pt=LH_DefaultDomain_0&hash=item2c6eb9ad99

http://www.ebay.com/itm/2-4GHz-20dBi-Yagi-802-11b-g-WiFi-Antenna-RP-SMA-WLAN-/190836223385?pt=LH_DefaultDomain_0&hash=item2c6eb9ad99

2.4GHz 20dBi Yagi 802.11b/g WiFi Antenna RP-SMA WLAN http://www.ebay.com/itm/2-4GHz-20dBi-Yagi-802-11b-g-WiFi-Antenna-RP-SMA-WLAN-/190836223385?pt=LH_DefaultDomain_0&hash=item2c6eb9ad99 US $9.99 New in Computers/Tablets & Networking, Enterprise Networking, Servers, Directional Antennas

View on www.ebay.com http://www.ebay.com/itm/2-4GHz-20dBi-Yagi-802-11b-g-WiFi-Antenna-RP-SMA-WLAN-/190836223385?pt=LH_DefaultDomain_0&hash=item2c6eb9ad99
Preview by Yahoo

So since I'm using the Linksys with two antennae, how does that work? Do I need two of these or what?

I suppose then I need a cheap TV rotator or just armstrong it for now...

---In DAWG-HSMM@yahoogroups.com, <billhagebusch@...> wrote :

I have successfully used some 2.4ghz yagis from eBay. They were cheap in every sense of the word but they worked. I seriously doubt their gain claims but they suffice. I’ve also used verticals, both home-built and purchased. Plans are available on the ‘net.
For field day use and for testing, I have put the antennas on a painter pole and/or a push-up pole with the router down toward the base. This is a bit lossy though. I’ve also put the router up on a mast, close to the antennas. I like to use a yagi and an omnidirectional together.

Bill
KE5ZVF

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com]
Sent: Wednesday, April 01, 2015 2:42 PM
To: DAWG-HSMM@yahoogroups.com
Subject: [DAWG-HSMM] Help with next step

Hey everyone, I've got my Router working, but just on the routers built in antennas. So basically I've not been able to do a darn thing with it :(

Can someone recommend an inexpensive way to put the router up in the air and recommend a low cost antenna? Even possibly someone to "shoot" at?

Thanks and 73,
Patrick KM5L

3066. Re: [DAWG-HSMM] Help with next step

Yahoo group: DAWG-HSMM
Date: 2015-04-03 05:46:16 UTC
From: Erick
Topic: 3063 Message: 3066

You need two you cannot feed them both into the same antenna....thats a ticket to letting the magic smoke out.

Erick

Sent from the aquarium

> On Apr 3, 2015, at 12:39 AM, patrick@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:
>
> Hi Bill,
>
>
> Something like this? 2.4GHz 20dBi Yagi 802.11b/g WiFi Antenna RP-SMA WLAN
>
> 2.4GHz 20dBi Yagi 802.11b/g WiFi Antenna RP-SMA WLAN
> US $9.99 New in Computers/Tablets & Networking, Enterprise Networking, Servers, Directional Antennas
> View on www.ebay.com
> Preview by Yahoo
>
>
>
> So since I'm using the Linksys with two antennae, how does that work? Do I need two of these or what?
>
> I suppose then I need a cheap TV rotator or just armstrong it for now...
>
>
>
> ---In DAWG-HSMM@yahoogroups.com, <billhagebusch@...> wrote :
>
> I have successfully used some 2.4ghz yagis from eBay. They were cheap in every sense of the word but they worked. I seriously doubt their gain claims but they suffice. I’ve also used verticals, both home-built and purchased. Plans are available on the ‘net.
>
> For field day use and for testing, I have put the antennas on a painter pole and/or a push-up pole with the router down toward the base. This is a bit lossy though. I’ve also put the router up on a mast, close to the antennas. I like to use a yagi and an omnidirectional together.
>
>
>
> Bill
>
> KE5ZVF
>

>
>
> From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com]
> Sent: Wednesday, April 01, 2015 2:42 PM
> To: DAWG-HSMM@yahoogroups.com
> Subject: [DAWG-HSMM] Help with next step
>
>
>
>
>
> Hey everyone, I've got my Router working, but just on the routers built in antennas. So basically I've not been able to do a darn thing with it :(
>
>
>
> Can someone recommend an inexpensive way to put the router up in the air and recommend a low cost antenna? Even possibly someone to "shoot" at?
>
>
>
> Thanks and 73,
>
> Patrick KM5L
>
>
>

3067. Re: [DAWG-HSMM] Help with next step

Yahoo group: DAWG-HSMM
Date: 2015-04-03 12:49:43 UTC
From: Mark Brueggemann
Topic: 3063 Message: 3067
Attachments: 1 described; binary payloads are missing from this source WARC

Not sure if this forum allows attachments, but attached are my notes on using a LinkSys outdoors.

Mark K5LXP
Albuquerque, NM

From:DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com]
Sent: Wednesday, April 01, 2015 2:42 PM
To: DAWG-HSMM@yahoogroups.com
Subject: [DAWG-HSMM] Help with next step

Hey everyone, I've got my Router working, but just on the routers built in antennas. So basically I've not been able to do a darn thing with it :(

Can someone recommend an inexpensive way to put the router up in the air and recommend a low cost antenna? Even possibly someone to "shoot" at?

Thanks and 73,
Patrick KM5L

3068. Re: [DAWG-HSMM] Help with next step

Yahoo group: DAWG-HSMM
Date: 2015-04-04 06:25:34 UTC
From: patrick@...
Topic: 3063 Message: 3068

I'm not good in these bands, but it seems to me there is no use in power dividing the signal, especially in the same direction. When using the internal antennae, I would assume they are spaced in a phased relationship. But with the yagi's that would not be the case. It seems like it would be better to shut one down in software when using the yagi. What am I missing?

73,
KM5L

3069. TAPR Digital Forum at Dayton Hamvention, Friday, 5/15 9:15 - 11: 15 am

Yahoo group: DAWG-HSMM
Date: 2015-04-13 05:06:50 UTC
From: Mark Thompson
Topic: 3069 Message: 3069

http://www.tapr.org/dayton.html

2015 TAPR Hamvention Digital Forum
Friday, May 15, 20159:15 AM to 11:15 AM
Forum Room #1
Moderator: Scotty Cowling, WA2DFI
Hamvention TAPR Forum Schedule
9:15 to 9:25 am Introduction by Steve Bible, N7HPR, TAPR President
9:25 to 9:35 am Write for QST/QEX by Steve Ford WB8IMY, QST Editor
9:35 to 10:00 am "Hamnet Mesh: Consider the Possibilities!" by Bill Curtice, WA8APB and Bob Dixon, W8ERD
10:00 to 10:25 am "High Speed IP Radio" by Bryan Fields, W9CR
10:25 to 10:50 am "Whitebox Project: New Charlie Prototype" by Chris Testa, KD2BMH
10:50 to 11:15 am "Spectrum Monitoring with Software Defined Radio" by Mike Ossmann

3070. From the ARRL E-letter of April

Yahoo group: DAWG-HSMM
Date: 2015-04-15 14:03:22 UTC
From: n5tim@...
Topic: 3070 Message: 3070

Broadband-Hamnet Issues New Release of Firmware for Linksys and Ubiquiti
Broadband-Hamnet (BBHN) has released version 3.1.0 firmware for the Linksys WRT54G and Ubiquiti families of products. This firmware returns to the use of patch updates, while also supporting add-on tools such as HamChat created by VE3NKL and a tunneling solution optimized by K5DLQ. This firmware release continues support for emergency communications data networking in the 2.4 GHz, 5 GHz and 900 MHz bands using Ubiquiti equipment and in the 2.4 GHz band using Linksys equipment. By creating solutions with Commercial Off The Shelf (COTS) hardware and Broadband-Hamnet firmware, a high-speed IP network can be deployed in the time required to set it in place and power it on.
There have been many requests for tunneling capability to allow interaction between remote Broadband-Hamnet networks. While this has been done before, the resources and complexity were quite high. With the new VTUN capability this feature becomes feasible for all Broadband-Hamnet users.
The HamChat server is a real innovation that allows keyboard-to-keyboard chats between any connected users on the same mesh. By using your web browser instead of chat client software, the complexity is reduced and the speed to deploy is increased. The HamChat server is not installed but is a downloadable package option for the Broadband-Hamnet 3.1.0 firmware.
The organization hopes that hams interested in high-speed data networks will look at the new Broadband-Hamnet 3.1.0 firmware. For more information, click on the group's website:
Broadband-Hamnet http://www.Broadband-Hamnet.org/

http://www.Broadband-Hamnet.org/

Broadband-Hamnet http://www.Broadband-Hamnet.org/ Broadband-Hamnet - Amateur Radio Mesh Networking

View on www.Broadband-Ha... http://www.Broadband-Hamnet.org/
Preview by Yahoo

3071. Fwd: Rohn BX Tower

Yahoo group: DAWG-HSMM
Date: 2015-04-19 18:11:22 UTC
From: Douglas Kilgore
Topic: 3071 Message: 3071

If you are interested in the tower, contact Bob directly.

Doug KD5OUG

-------- Forwarded Message --------
Subject: Rohn BX Tower
Date: Sun, 19 Apr 2015 10:44:02 -0500
From: Robert Coelln <kg5jl@...>
To: kd5oug@... <kd5oug@...>

Hi Doug,
Please send out this information for me.
I have a used Rohn BX tower for sale.
I am asking $250.00 and it comes with a new set of concrete base mounting legs and a used thrust bearing.
It is seven 8 foot sections of tower that make up a 54 foot self supporting tower.
The tower is on the back of my pick up truck now and I will deliver it free to the immediate area.
My phone number is 214-244-9506.
Thanks,
Bob Coelln
KG5JL

This email has been checked for viruses by Avast antivirus software.
http://www.avast.com

3072. Re: Digital Tuesday -- This Tuesday

Yahoo group: DAWG-HSMM
Date: 2015-04-23 01:38:41 UTC
From: john.anderson36@...
Topic: 2868 Message: 3072

I have a WRT54GS loaded with BBHN 3.1.0, at Coit and Campbell. Am looking for advice on the antenna to use and mesh networks nearby, to test my node.

3073. 2015 ARRL/TAPR DCC Announced AND TAPR at Dayton Hamvention

Yahoo group: DAWG-HSMM
Date: 2015-04-25 18:47:13 UTC
From: Mark Thompson
Topic: 3073 Message: 3073
Attachments: 3 described; binary payloads are missing from this source WARC

2015 ARRL/TAPR DCC (Digital Communications Conference) Announced
The 2015 DCC will be in Chicago on October 9 - 11
in the northwest suburb of Arlington Heights not far from O'Hare airport.The DCC has two full days of Technical presentations on Friday & Saturday and on Sunday morning a deep dive into a technical subject.
On Saturday there is a full day of concurrent Introductory sessions. Be sure to register for the DCC and reserve your hotel room early.
DCC information is available at:
http://www.tapr.org/dccLook forward to your participation in the DCC.

TAPR at Dayton Hamvention
TAPR will have booths, forums and a joint banquet with AMSAT at the Dayton Hamvention. Details about TAPR activities at the Hamvention are available at: http://www.tapr.org/dayton

3074. Tide Button Wifi

Yahoo group: DAWG-HSMM
Date: 2015-05-13 00:50:51 UTC
From: Douglas Kilgore
Topic: 3074 Message: 3074

Has anybody hacked one of these?

http://clicks.aweber.com/y/ct/?l=AOKvU&m=3XFzRrXdCQrzbnN&b=jAb5KKJhsp5HlIn4KpME2A

Doug KD5OUG

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http://www.avast.com

3075. Gotenna

Yahoo group: DAWG-HSMM
Date: 2015-05-18 21:57:54 UTC
From: Douglas Kilgore
Topic: 3075 Message: 3075

I wonder if you can hack an external antenna on this:
http://www.gotenna.com/pages/how-it-works

And it uses encryption.

Doug

This email has been checked for viruses by Avast antivirus software.
http://www.avast.com

3076. Re: [DAWG-HSMM] Gotenna

Yahoo group: DAWG-HSMM
Date: 2015-05-19 07:36:34 UTC
From: Rusty Haddock
Topic: 3075 Message: 3076

Douglas Kilgore kilgore1317@... [DAWG-HSMM] wrote:
>I wonder if you can hack an external antenna on this:
>http://www.gotenna.com/pages/how-it-works

I doubt it but... It appears to be useful only for text messaging.
Wonder if they're using 1200/2400-baud FSK and their own packet structure?

>And it uses encryption.

Makes sense. T'would be nice if it could be tweaked for <148-MHz
and encryption turned off. Still, $149 for two very specialized
radios (and that's the Pre-order price) is a bit much.

You could easily do that with the ZipIt Z2 but over regular WiFi. :)

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

3077. Re: [DAWG-HSMM] Gotenna

Yahoo group: DAWG-HSMM
Date: 2015-05-19 10:45:19 UTC
From: Dallas KD4HNX
Topic: 3075 Message: 3077

Very interesting toy... I bet adding an external antenna jack would be easy but at the expense of disconnecting the internal/extendable antenna and possibly getting it all closed up, water tight, in it's original case...

73 Dallas, KD4HNX
Whatever you do, don’t fall victim to “paralysis by analysis.” Go ahead and buy/build one and start tinkering with it. This is a learn by doing hobby.

No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!
From: "Douglas Kilgore kilgore1317@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com; dalNBEMS@yahoogroups.com
Sent: Monday, May 18, 2015 4:57 PM
Subject: [DAWG-HSMM] Gotenna

I wonder if you can hack an external antenna on this:
http://www.gotenna.com/pages/how-it-works

And it uses encryption.

Doug

This email has been checked for viruses by Avast antivirus software.
http://www.avast.com

3078. Re: Gotenna

Yahoo group: DAWG-HSMM
Date: 2015-05-25 05:45:18 UTC
From: patrick@...
Topic: 3075 Message: 3078

This appears to be just a crosslinked repeater - Rx on the bluetooth freqs (2.4 gHz) to 154 mHz.

Claims to have 50 mile coverage between them. Not. Well, I guess it you used the mountain example and you were on top of it. It is a bit of a gadget, but I could see some applications.

73,
Patrick KM5L

---In DAWG-HSMM@yahoogroups.com, <kilgore1317@...> wrote :

I wonder if you can hack an external antenna on this:
http://www.gotenna.com/pages/how-it-works http://www.gotenna.com/pages/how-it-works

And it uses encryption.

Doug

This email has been checked for viruses by Avast antivirus software.
http://www.avast.com http://www.avast.com

3079. Fwd: DE NN2X

Yahoo group: DAWG-HSMM
Date: 2015-07-04 19:47:19 UTC
From: Douglas Kilgore
Topic: 3079 Message: 3079
Attachments: 2 described; binary payloads are missing from this source WARC

I'm passing this message along.

Doug

-------- Forwarded Message --------
Subject: DE NN2X
Date: Sat, 4 Jul 2015 19:03:58 +0000
From: Thomas Wright <TOM.WRIGHT@...>
To: kd5oug@... <kd5oug@...>

HI Doug

Let me introduce myself, my name is Tom Wright, (NN2X), *residing in Allen Texas*. I am the co-founder of ITC-L (IT Vocational School), which focuses on IT industry. ITC-L is a licensed Vocation School, based in North Dallas Texas, (Richardson). Web Page WWW.ITC-L.COM <http://WWW.ITC-L.COM>

Our toll free number is : 855-482-6779 or you can call me directly at 972 322 8082.

We are targeting *Ham Operators* to enroll in our Network Associate Engineering Program (Richardson Texas)! The Network Associate Engineering Program is only 12 weeks, 4 hours a day, M-F. We start Sept 1, through Nov 20th .

Why are we targeting Ham Operators?

The *State of Texas mandates ITC-L to place very percentage of the students*. Ham Operators with IT Skills enhances dramatically the success of placement! Unlike Colleges and Seminars courses they are not mandated to place the students from the State of Texas, but ITC-L is required hence ITC-L will only accept 25 students!

Below is more about ITC-L

/Seeking Ham Operators to be placed in IT Industry/

/(In Dallas Texas) /

As a Ham Operator, we have a thirst for technology. Many of us (Ham Operators) converted the Ham experience into a career in Telecommunications.

Unfortunately, various Telecom skills are fading away, and so are companies (Like Nortel).

Today it is all about IT technology and many X Telecom Engineers are faced to retool, and the natural progression is in IT industry

ITC-L is local licensed Vocational school in the State of Texas, and we are expanding to a new building in Richardson, Texas, 75002. Our *programs are only 12 weeks*, 4 hours a day, *and the State of Texas, mandates we place HIGH percentage of our students*..

ITC-L are specifically targeting Ham Operators. ITC-L will only accept 25 Students We believe a technologist (Ham operator) has the background and will be easier to place in the IT Industry.

ITC-L is local, (Richardson or Allen Texas), our classes start in Sept 1, and completes Nov 20, 2015.

The IT certificates that you will obtain, are A+, N+, MCP (Microsoft), and CCNA (Cisco),

Unlike college or Seminars there is no mandate to place the Student, we (ITC-L) is mandated by the State of Texas, hence we are only enrolling what we can place! (Only 25 students)

Many of you may recall the First Class FCC license, during those days the salaries for FCC First class was in par with a BSEE.

The same is today, however it is the IT certificates that pay better than even the BSEE, or MBA, as shown on the table to the left.

There are 477 Cisco Channel partners alone in the Dallas area, and 100+ Microsoft channel Partners. The demand is overwhelming

Look forward to your response

Best, 73?s DE NN2X!

Tom Wright | SVP Global Sales for IT Certificates and License

Dallas, Texas <x-apple-data-detectors://0/0>
Mob +1 (972) 322 8082 <tel:+1%20%28972%29%20322%208082> | Email Tom.wright@... <mailto:Tom.wright@...>

Cisco Certificates

CCIE (Wireless / Written)
CCNP,CCDP,CCVP CSE, CCNA (Wireless)
CCNA CS-CIPTDS, CS-CAIPCSS
CS- CRMCS, CS-CIPCCES,
CS-CUSS,CS-CUDS

FCC Licenses

First Class & General,
2nd Class Radio Telegraph,
Radar Endorsement
Amateur Extra License (NN2X)

Global Maritime License
Radio Operator License
Global Maritime
Mainter?s License

Formal

MBA, BSEE, Associate Degree Computer Science
Electronic Engineering Diploma

Military

ARMY (1976 - 1979) / Focus Communications and IT

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https://www.avast.com/antivirus

3080. Plano Balloon Festival

Yahoo group: DAWG-HSMM
Date: 2015-07-30 01:52:10 UTC
From: Kipton Moravec
Topic: 165 Message: 3080

Plano Balloon Festival is around the corner again. This year it will be September 18-20.

It looks like we will be providing internet access from the church to the Communications trailer and to the Operations Tent. In addition we will provide the Special Event Trailer with internet access.

The church will be a much easier setup than in previous years as last year Randy installed an Ethernet port next to the roof hatch last year which simplifies our Internet access to the roof. So I can run a 200 foot Ethernet cable from there to the Ubiquity nodes and we are good.

Last year we used both 3.4 GHz and 2.4 GHz and it seemed both worked well. (3.4 worked better.)

Tony purchased a pair of 900 MHz units this year for Field Day, and we may try those also at PBF.

We will probably set up the church a week early, and then everything else Thursday after work.

If you want to help let me know.

Kip

3081. FCC Proposal

Yahoo group: DAWG-HSMM
Date: 2015-09-03 04:17:55 UTC
From: Douglas Kilgore
Topic: 3081 Message: 3081

Here's something that will affect ham equipment:

http://www.southgatearc.org/news/2015/august/fcc_proposes_ban_on_sdr_radios_and_more.htm?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%253A+AmateurRadioNews+%2528Southgate+Amateur+Radio+News%2529#.VeNh3_XD9Dt

Doug KD5OUG

This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

3082. WARNING about newly produced Ubiquiti gear

Yahoo group: DAWG-HSMM
Date: 2015-09-22 19:56:25 UTC
From: Rusty Haddock
Topic: 3082 Message: 3082

This is on the BBHN website front page. Take heed!

In short -- Ubiquiti is using a new version of their bootloader (this is the code in the device that loads new firmware) that has moved the locations of and changed the sizes of certain sections of flash memory. Loading non-Ubiquiti firmware into a newly manufactured (roughly from July 2015) *WILL* brick your unit. Be warned!!! See the link below.

-Rusty-

Broadband-Hamnet
NEWSFLASH
Written by Administrator
Monday, 07 July 2014 00:00
9/21/2015

Notice: There is a serious risk to certain Ubiquiti hardware when used with software not written to match their new boot loader. The issue occurs when recent Ubiquiti devices with a new bootloader version are used with firmware not specifically modified for this change.

OpenWRT is the origin software for Broadband-Hamnet software designed for Ubiquiti products.

At present, the issue is under investigation.

To prevent unrecoverable damage to your Ubiquiti devices, we STRONGLY recommend waiting until the limits, methods to avoid the risk and specific steps are posted.

Further details of the actual issue are here:
http://wiki.openwrt.org/toh/ubiquiti/airmaxm

--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

3083. Re: [DAWG-HSMM] WARNING about newly produced Ubiquiti gear

Yahoo group: DAWG-HSMM
Date: 2015-09-22 20:02:05 UTC
From: Rusty Haddock
Topic: 3082 Message: 3083

Rusty Haddock rusty@... [DAWG-HSMM] wrote:
>This is on the BBHN website front page. Take heed!
>
>In short -- Ubiquiti is using a new version of their bootloader (this
>is the code in the device that loads new firmware) that has moved the
>locations of and changed the sizes of certain sections of flash memory.
>Loading non-Ubiquiti firmware into a newly manufactured (roughly from

Sorry -- I should have said: *SOME* newly manufactured units.
This doesn't necessarily pertain to all Ubiquiti gear.
Again, see the article on the OpenWrt wiki.

-Rusty-
--
_____ Rusty Haddock <=> AE5AE
|\/ o \ o Way out yonder in the
| (-< O o Van Alstyne (TX) Metropolitan Area
|/__V__/ Math illiteracy affects 7 out of 5 people!

3084. Fwd: [UKHAS] Pegasus II - Go for launch Oct 5

Yahoo group: DAWG-HSMM
Date: 2015-10-01 05:39:02 UTC
From: Douglas Kilgore
Topic: 3084 Message: 3084

Microsoft is doing a balloon launch next week.

-------- Original Message --------
Subject: [UKHAS] Pegasus II - Go for launch Oct 5
Date: 2015-09-29 08:17
From: Matt Long <w.matt.long@...>
To: UKHAS <ukhas@...>
Reply-To: ukhas@...

The Pegasus Mission will launch Pegasus II from Cheyenne, WY on Oct 5, 2015, using experimental technology to deliver a live near space experience.

Features:
-Live video
-Live telemetry
-Live updating maps of craft, chase vehicle, launch site
-User messages sent to inflight craft from mobile apps
-Craft can send text messages during flight for launch notification.
-Remote Intelligence to manage flight operations, video rotation, cut-down, and low altitude parachute deployment

Web Site: https://www.pegasusmission.io
Sign up for SMS Flight notifications and craft will text your phone when we launch.

Web Site will display live video, telemetry, maps.
Mobile apps will be available. Search your app store for "Pegasus Mission".

Flight Name: Pegasus II
Location: Cheyenne, WY 41.122910,-104.895172
Balloon: Kaymont 2000gm
Target Altitude: 100,000 ft
Call Sign: KD9CVO-2
Web site: https://www.pegasusmission.io
Blog: http://pegasusmission.com
Twitter: @PegasusMission
Facebook: http://www.facebook.com/pegasusmission
LinkedIn:
https://www.linkedin.com/pulse/pegasus-ii-go-launch-matt-long?trk=pulse_spock-articles
_____

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https://www.avast.com/antivirus

3085. Re: [DAWG-HSMM] Fwd: [UKHAS] Pegasus II - Go for launch Oct 5

Yahoo group: DAWG-HSMM
Date: 2015-10-01 09:32:50 UTC
From: Don Henson
Topic: 3084 Message: 3085

Please don't expose our technology to the largest thief of others great work. They will somehow patent it and destroy our ability to provide service to others. . Your personel desire to be a 'bigshot' will have a negative affect on the rest of us. . .

On Thu, Oct 1, 2015 at 12:39 AM, Douglas Kilgore kilgore1317@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

>
>
> Microsoft is doing a balloon launch next week.
>
> -------- Original Message --------
> Subject: [UKHAS] Pegasus II - Go for launch Oct 5
> Date: 2015-09-29 08:17
> From: Matt Long <w.matt.long@...>
> To: UKHAS <ukhas@...>
> Reply-To: ukhas@...
>
> The Pegasus Mission will launch Pegasus II from Cheyenne, WY on Oct 5,
> 2015, using experimental technology to deliver a live near space
> experience.
>
> Features:
> -Live video
> -Live telemetry
> -Live updating maps of craft, chase vehicle, launch site
> -User messages sent to inflight craft from mobile apps
> -Craft can send text messages during flight for launch notification.
> -Remote Intelligence to manage flight operations, video rotation,
> cut-down, and low altitude parachute deployment
>
>
> Web Site: https://www.pegasusmission.io
> Sign up for SMS Flight notifications and craft will text your phone when
> we launch.
>
> Web Site will display live video, telemetry, maps.
> Mobile apps will be available. Search your app store for "Pegasus
> Mission".
>
> Flight Name: Pegasus II
> Location: Cheyenne, WY 41.122910,-104.895172
> Balloon: Kaymont 2000gm
> Target Altitude: 100,000 ft

> Call Sign: KD9CVO-2
> Web site: https://www.pegasusmission.io
> Blog: http://pegasusmission.com
> Twitter: @PegasusMission
> Facebook: http://www.facebook.com/pegasusmission
> LinkedIn:
>
> https://www.linkedin.com/pulse/pegasus-ii-go-launch-matt-long?trk=pulse_spock-articles
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> This email has been checked for viruses by Avast antivirus software.
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> Yahoo Groups Links
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Math illiteracy affects 7 out of 5 people

3086. Island Builds Own ISP

Yahoo group: DAWG-HSMM
Date: 2015-11-04 13:22:55 UTC
From: Douglas Kilgore
Topic: 3086 Message: 3086

From The ARRL Contest Update for November 4, 2015:

Neighbors on Orcas Island, Washington put together their own Internet
Service Provider (ISP) using unlicensed wireless technology
<http://arstechnica.com/information-technology/2015/11/how-a-group-of-neighbors-created-their-own-internet-service/>
when their previous Internet provider became unreliable.

This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

3087. Using Mesh to Link Repeaters

Yahoo group: DAWG-HSMM
Date: 2015-11-12 23:35:53 UTC
From: Fred Kleber
Topic: 3087 Message: 3087

Hi List,
I've searched all of the forums and haven't come across anyone commenting on this topic. What I seek is info from someone who has successfully linked two analog ham repeaters. I understand that BBHN only moves data, so an external status / supervisory / contact closure type application would be needed, in addition to passing audio in both directions.
Any help folks can provide is much appreciated. 73,Fred, K9VV / NP2X

3088. Re: [DAWG-HSMM] Using Mesh to Link Repeaters

Yahoo group: DAWG-HSMM
Date: 2015-11-13 00:29:36 UTC
From: zaphod
Topic: 3087 Message: 3088

one problem your going to have is delay from one repeater to the other. There is processor overhead you must overcome I look forward to helping you test this out, but I am very worried that this is going to perform like a voip connection with a bad linc.
ErickNetwork Engineer/Voip Engineer/Wireless Engineer

From: "Fred Kleber kleberf@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: "dawg-hsmm@yahoogroups.com" <dawg-hsmm@yahoogroups.com>
Sent: Thursday, November 12, 2015 5:35 PM
Subject: [DAWG-HSMM] Using Mesh to Link Repeaters

Hi List,
I've searched all of the forums and haven't come across anyone commenting on this topic. What I seek is info from someone who has successfully linked two analog ham repeaters. I understand that BBHN only moves data, so an external status / supervisory / contact closure type application would be needed, in addition to passing audio in both directions.
Any help folks can provide is much appreciated. 73,Fred, K9VV / NP2X

3089. Re: [DAWG-HSMM] Using Mesh to Link Repeaters

Yahoo group: DAWG-HSMM
Date: 2015-11-15 15:43:36 UTC
From: David McAnally
Topic: 3087 Message: 3089

A duplex radio (RF) link setup would seem preferable. I started to write about theLinkbox, below, but discovered a CAT repeater controller <https://catauto.com/index.php/2014-12-29-23-38-29/internet-linking/cl-100-internet-controller>
supporting linking across networks. It would seem the controller network feature would be the way to do mesh network repeater linking.

However, it should be possible to use something like theLinkbox <http://sourceforge.net/projects/cqinet/>to link repeaters "off grid" via a mesh IP network. There will be a learning curve. Skip, WB6YMH, the author seems to have moved on to other interests. There is a Yahoo group <https://groups.yahoo.com/neo/groups/thelinkbox/info> where you "may" find limited support for theLinkbox.

I use Skip's earlier software, theBridge <http://cqinet.sourceforge.net/thebridge.shtml>, for combined IRLP and EchoLink conferences/reflectors, supporting WX5FWD SKYWARN <http://wx5fwd.org/> activities. Skip later came out with theLinkbox, based on theBridge, to provide direct control and linking of repeaters or radios over IP, as well as conferencing capabilities of theBridge. I also have had theLinkbox running as an IRLP/EchoLink conference <http://status.wx5fwd.net/>, for several years now. I never got around to interfacing it directly with a radio. I know others have done so. It should compile on most Linux/UX related systems, including the RaspberryPI. There was discussion of replacing theBridge in EchoIRLP with theLinkbox.

There may be other software packages for IP linking of radios. I'm only familiar with theLinkbox. An important aspect is that the software must be something that can run stand alone, without needing to interface with public networked systems and IRLP, EchoLink, D-Star, etc.

Good luck with your project!

David McAnally
WD5M

On Thu, Nov 12, 2015 at 5:35 PM, Fred Kleber kleberf@...
[DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

>
>
> Hi List,
>
> I've searched all of the forums and haven't come across anyone commenting
> on this topic. What I seek is info from someone who has successfully
> linked two analog ham repeaters. I understand that BBHN only moves data,
> so an external status / supervisory / contact closure type application

> would be needed, in addition to passing audio in both directions.
>
> Any help folks can provide is much appreciated.
> 73,
> Fred, K9VV / NP2X
>
>
>
>

3090. Re: Using Mesh to Link Repeaters

Yahoo group: DAWG-HSMM
Date: 2015-11-17 19:06:03 UTC
From: Pat
Topic: 3087 Message: 3090

All Star might be another possibility for such a linking project. (https://allstarlink.org/) A small scale hardware platform for AllStar on a BBB or RPi2 (http://www.crompton.com/hamradio/BeagleBoneBlackAllstar/).

Pat
K4PAT

3091. Fwd: NEW! High Speed Multimedia for Amateur Radio

Yahoo group: DAWG-HSMM
Date: 2016-04-10 08:19:54 UTC
From: Mark Thompson
Topic: 3091 Message: 3091

----- Forwarded Message -----

From: ARRL Web site <memberlist@...>
Date: Friday, April 8, 2016
Subject: NEW! High Speed Multimedia for Amateur Radio
To:

| New Book from ARRL -- by Glen Popiel, KW5GP -- Order Online at www.arrl.org/shop
|

| |
|

| Build a High Speed Amateur Radio Microwave Network

Using commercial off-the-shelf equipment and developing their own software, groups of hams have created high speed wireless Amateur Radio digital networks with wide area coverage.

The possible uses for these high speed data networks in the Amateur Radio community are endless. Virtually any service that works on the regular Internet can be adapted to an Amateur Radio high speed multimedia (HSMM) network, including video conferencing, instant messaging, voice over Internet protocol (VoIP), network sensors and cameras, remote station control, and many other services. With the capability to send real-time video and data files, the public service and disaster support aspects of Amateur Radio are expanded tremendously.

This book introduces HSMM networking, explains the basics of how it works, and describes the various technologies in use today. Later chapters explain in detail how to deploy your own HSMM network, along with various applications to put it to work. Well illustrated step-by-step instructions will guide you through the process of installing and configuring software needed to get your HSMM network up and running.

|
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- Introduction to High Speed Multimedia
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- HSMM Equipment for Amateur Radio
- TCP/IP for HSMM
- HSMM Application |

- Security and Filtering
- Backup and Redundancy
- Deploying HSMM Networks
- The Future of HSMM |

| High Speed Multimedia for Amateur Radio
ARRL Item No. 0529

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|

3092. Fw: Mesh Network Presence at Hamvention

Yahoo group: DAWG-HSMM
Date: 2016-05-11 20:43:54 UTC
From: Mark Thompson
Topic: 3092 Message: 3092

[Body unavailable in the source archive]

3093. Technician License Class June 18th - 19th

Yahoo group: DAWG-HSMM
Date: 2016-06-03 14:34:41 UTC
From: mbpruden@...
Topic: 3093 Message: 3093

We still have a few seats available if you know anyone who might be interested.

Mike
NN5ZZ

Save This Date: HAM RADIO CLASS
The Plano Amateur Radio Club will be presenting a Technician level amateur radio class on June 18th-19th, 2016. The class will be held at the Lucas Fire Station, which is located at 165 Country Club Ln, (just north of Bethany/Lucas Rd.) in Lucas. As always the class is free, the EXAM is $14.00 cash. We are looking at a timeframe of 8:00am- 3:00pm on Saturday and 9:00am- 2:00pm on Sunday, with the EXAM at 3:00 on Sunday. Parking should be available on the south side of the fire station. A government issued photo ID will be required to take the exam on Sunday afternoon (FCC Requirement).

Other amateur radio class exams (General,Extra) will also be available for those wishing to take those exams. You need to bring a copy of your current amateur radio license.

To prepare for this class, we urge you to pick up a copy of the Ham Radio School's Technician Class study guide prior to the class, and read through the course material at least once. We have a number of used study guides available, which you can rent for $14.00 cash. When you return these study guides, in good condition (not marked up or dog ear'ed), your $14.00 rental fee will be applied to the $14.00 cost to take the examination. Basically, we save you the cost of buying the study guide.

Any additional questions that you might still have after reading through the study guide, will be covered during the two day training class. If you want your own copy of the study guide, these manuals are available locally at the Ham Radio Outlet store 701 E. Plano Parkway Suite 406, across the street from Fry's Electronics in Plano. The cost for the study guide should be $19.95.

To register for this class, or if you have additional questions, please send an email to Mike Pruden at (NN5ZZ@arrl.net). Please provide your NAME, EMAIL ADDRESS, and TELEPHONE NUMBER.

Let us know if you are interested in renting one of our used study guides, and we will contact you regarding how to pick up your copy.

Thanks
Mike Pruden

NN5ZZ@arrl.net

3094. Peach Pedal

Yahoo group: DAWG-HSMM
Date: 2016-06-08 22:21:56 UTC
From: Jim Spaulding
Topic: 3094 Message: 3094

DAWG

The Peach Pedal bike ride will be held July 9 in Weatherford, TX. We would like to do a video demo for the ride, but are short of people. We could sure use two or three ops to man relays or camera sites,

If you are interested, let me know at w0uo.w5@...

Jim

W0UO

3095. DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-05 23:35:03 UTC
From: patrick@...
Topic: 3095 Message: 3095

Anyone doing 3.4GHz around here?

Anyone using the M3 gear?

Anyone else in east Dallas?

73,
Patrick KM5L

3096. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-05 23:46:14 UTC
From: James Gordon Beattie, Jr.
Topic: 3095 Message: 3096

Patrick,

I live in NJ, but if you are going to run 3.4 GHZ, try the code available at www.aredn.org as it will give you great functionality on 3.4 as well as 2.4, 5.7 and 900 with the same base code.
73,

Gordon, W2TTT

Sent from AT&T Mail on Android

From:"patrick@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Tue, Jul 5, 2016 at 19:35
Subject:[DAWG-HSMM] DFW mesh with 3.4 GHz?

Anyone doing 3.4GHz around here?

Anyone using the M3 gear?

Anyone else in east Dallas?

73,
Patrick KM5L

3097. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-06 14:03:17 UTC
From: zaphod
Topic: 3095 Message: 3097

I am in north Texas as are others....where are you as you need to be line of site.
Erick

From: "'James Gordon Beattie, Jr.' w2ttt@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@yahoogroups.com>; "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@yahoogroups.com>
Cc: Randolph Smith <randolph@...>
Sent: Tuesday, July 5, 2016 6:46 PM
Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

| Patrick,I live in NJ, but if you are going to run 3.4 GHZ, try the code available at www.aredn.org as it will give you great functionality on 3.4 as well as 2.4, 5.7 and 900 with the same base code.
73,Gordon, W2TTT
Sent from AT&T Mail on Android
| From:"patrick@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Tue, Jul 5, 2016 at 19:35
Subject:[DAWG-HSMM] DFW mesh with 3.4 GHz?

  Anyone doing 3.4GHz around here?

Anyone using the M3 gear?

Anyone else in east Dallas?

73,
Patrick KM5L |

|

3098. WRT54GL Fun Facts

Yahoo group: DAWG-HSMM
Date: 2016-07-06 16:32:23 UTC
From: n5sqa@...
Topic: 3098 Message: 3098

http://arstechnica.com/information-technology/2016/07/the-wrt54gl-a-54mbps-router-from-2005-still-makes-millions-for-linksys/ http://arstechnica.com/information-technology/2016/07/the-wrt54gl-a-54mbps-router-from-2005-still-makes-millions-for-linksys/

Ron

3099. Re: WRT54GL Fun Facts

Yahoo group: DAWG-HSMM
Date: 2016-07-07 11:46:35 UTC
From: n2jdh2014@...
Topic: 3098 Message: 3099

What's funny is, over the weekend, i was looking for a way to remove the mesh software and load DD-WRT on that router. I have the G and the GL. Bought the G new and keep it. It has to be about 10 years old. I love them!

Andre, N2JDH

3100. Presentation on High Speed Mesh Networking with AREDN

Yahoo group: DAWG-HSMM
Date: 2016-07-10 22:54:56 UTC
From: Douglas Kilgore
Topic: 3100 Message: 3100

There is now a special presentation scheduled for the afternoon session of the Raspberry Pi SIG.

Please join us on Saturday, July, 16, 1200-1500 at University of Texas at Dallas, for a presentation on, and demonstration of, high speed MESH networking using the K5UTD Amateur Radio Emergency Digital Network (AREDN) project. Given by Andrew, KE5GDB, the presentation will will include assistance with node setup (hardware, software, firmware) and operation.

AREDN is an adaptation of Broadband-Hamnet firmware to Ubiquity wireless products on the 900Mhz, 2.4, 3.3 and 5 Ghz amateur bands. AREDN has the potential to provide extraordinary digital communication capabilities for RACES/ARES and public service operations.

Whether you are just curious about AREDN or are already mesh-ready, this presentation will be an excellent opportunity for learning and sharing. If you have node gear (radio, antenna, laptop, etc.), please bring it.

For meeting location, visit http://brandenburgtech.com/

This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

3101. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-11 02:49:15 UTC
From: Kipton Moravec
Topic: 3095 Message: 3101

I disagree.

Currently the only thing AREDN does that Broadband-Hamnet does not yet do is adds frequencies below Channel 1 on 2.4 GHz.

ARDEN updates are frequent. They update more often because they are fixing things that are broken or never worked.

Currently ARDEN and Broadband-Hamnet are over the air compatible, but ARDEN is not promising to stay that way. The networks with Broadband-hamnet are up and running and STABLE. (If it is not broken, do not fix it...)

ARDEN does not support Linksys routers. Broadband-hamnet does and will continue to.

Broadband-Hamnet is developing capabilities for the Raspberry Pi. ARDEN is not interested in the Raspberry Pi either.

But do what you want...

Kip
AE5IB

On 07/05/2016 06:46 PM, 'James Gordon Beattie, Jr.' w2ttt@...
[DAWG-HSMM] wrote:
>
>
> Patrick,
> I live in NJ, but if you are going to run 3.4 GHZ, try the code
> available at www.aredn.org as it will give you great functionality on
> 3.4 as well as 2.4, 5.7 and 900 with the same base code.
> 73,
> Gordon, W2TTT
>
> Sent from AT&T Mail on Android
> <https://att.overview.mail.yahoo.com/mobile/?.src=Android>
>
> ---
> *From*:"patrick@... [DAWG-HSMM]"
> <DAWG-HSMM@yahoogroups.com>
> *Date*:Tue, Jul 5, 2016 at 19:35
> *Subject*:[DAWG-HSMM] DFW mesh with 3.4 GHz?
>
> Anyone doing 3.4GHz around here?
>
> Anyone using the M3 gear?

>
> Anyone else in east Dallas?
>
> 73,
> Patrick KM5L
>
>
>
>

3102. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-11 03:37:26 UTC
From: James Gordon Beattie, Jr.
Topic: 3095 Message: 3102

Erick,

I am in New Jersey. :-)

If I can help you with www.aredn.org software, please let me know.

73,

Gordon, W2TTT

201.314.6964

Sent from AT&T Mail on Android

From:"zaphod zaphod1@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Wed, Jul 6, 2016 at 10:03
Subject:Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

I am in north Texas as are others....where are you as you need to be line of site.

Erick

From: "'James Gordon Beattie, Jr.' w2ttt@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@yahoogroups.com>; "DAWG-HSMM@...m" <DAWG-HSMM@yahoogroups.com>
Cc: Randolph Smith <randolph@...>
Sent: Tuesday, July 5, 2016 6:46 PM
Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Patrick,

I live in NJ, but if you are going to run 3.4 GHZ, try the code available at www.aredn.org as it will give you great functionality on 3.4 as well as 2.4, 5.7 and 900 with the same base code.
73,

Gordon, W2TTT

Sent from AT&T Mail on Android

From:"patrick@runthisproject.com [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Tue, Jul 5, 2016 at 19:35
Subject:[DAWG-HSMM] DFW mesh with 3.4 GHz?

Anyone doing 3.4GHz around here?

Anyone using the M3 gear?

Anyone else in east Dallas?

73,
Patrick KM5L

3103. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-14 14:42:54 UTC
From: patrick@...
Topic: 3095 Message: 3103

Thanks Gordan, and also Erik.

Gordan ok on that info, I'll check it out. Erik I'm in Lakewood and I do understand the need for line of site, but that's the same even for 2.4 pretty much right?

I don't know, I've got a 2.4 now going and want to get it up high on a pole - but before going to the trouble I'd like to decide on the band. It's my understanding that 3.4 GHz would be better for amateurs since it's not shared with the masses. Is this good thinking? I'd like to find 2, 3 or 4 hams nearby in the Lakewood area who would like to link up on 3.4 GHz.

73,
Patrick KM5L

3104. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-14 14:50:06 UTC
From: patrick@...
Topic: 3095 Message: 3104

Hey Kip, thanks for that input. I'm zero authority on any of this, but want to add to it if I can. I would think that we should be trying to go down the same path though, too much splintering could hold up proliferation and I'd love to see mesh proliferate. In all honesty, should we think of the linksys router as a true consideration since (correct me if I'm wrong) those routers will eventually break down and nothing new in that line is replacing them? Again no authority here but aren't these the old ones and once gone are gone?

Shouldn't we opt for frequencies that are not shared with the public? Just asking, not saying.

I loved your raspberry pi comment too, I'll look up what y'all are doing on that as I have several pi projects as well.

73,
Patrick

3105. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-14 17:17:55 UTC
From: Matthew Bennett
Topic: 3095 Message: 3105

blockquote, div.yahoo_quoted { margin-left: 0 !important; border-left:1px #715FFA solid !important; padding-left:1ex !important; background-color:white !important; } Actually linksys still makes millions of wrt54gl every year. And they'll be replaced by other linux-capable routers with broadcom chipsets. If not broadcom, i imagine there will be more linux capable routers on the future and it will be a matter of getting the correct drivers.

Sent from Yahoo Mail for iPhone

On Thursday, July 14, 2016, 9:50 AM, patrick@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

Hey Kip, thanks for that input. I'm zero authority on any of this, but want to add to it if I can. I would think that we should be trying to go down the same path though, too much splintering could hold up proliferation and I'd love to see mesh proliferate. In all honesty, should we think of the linksys router as a true consideration since (correct me if I'm wrong) those routers will eventually break down and nothing new in that line is replacing them? Again no authority here but aren't these the old ones and once gone are gone?

Shouldn't we opt for frequencies that are not shared with the public? Just asking, not saying.
I loved your raspberry pi comment too, I'll look up what y'all are doing on that as I have several pi projects as well.
73,Patrick -- #ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#ygrp-mkp hr {border:1px solid #d8d8d8;}#ygrp-mkp #hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#ygrp-mkp #ads {margin-bottom:10px;}#ygrp-mkp .ad {padding:0 0;}#ygrp-mkp .ad p {margin:0;}#ygrp-mkp .ad a {color:#0000ff;text-decoration:none;}#ygrp-sponsor #ygrp-lc {font-family:Arial;}#ygrp-sponsor #ygrp-lc #hd {margin:10px 0px;font-weight:700;font-size:78%;line-height:122%;}#ygrp-sponsor #ygrp-lc .ad {margin-bottom:10px;padding:0 0;}#actions {font-family:Verdana;font-size:11px;padding:10px 0;}#activity {background-color:#e0ecee;float:left;font-family:Verdana;font-size:10px;paddi ng:10px;}#activity span {font-weight:700;}#activity span:first-child {text-transform:uppercase;}#activity span a {color:#5085b6;text-decoration:none;}#activity span span {color:#ff7900;}#activity span .underline {text-decoration:underline;}.attach {clear:both;display:table;font-family:Arial;font-size:12px;padding:10px 0;width:400px;}.attach div a {text-decoration:none;}.attach img {border:none;padding-right:5px;}.attach label {display:block;margin-bottom:5px;}.attach label a {text-decoration:none;}blockquote {margin:0 0 0 4px;}.bold {font-family:Arial;font-size:13px;font-weight:700;}.bold a {text-decoration:none;}dd.last p a {font-family:Verdana;font-weight:700;}dd.last p span {margin-right:10px;font-family:Verdana;font-weight:700;}dd.last p span.yshortcuts {margin-right:0;}div.attach-table div div a {text-decoration:none;}div.attach-table {width:400px;}div.file-title a, div.file-title a:active, div.file-title a:hover, div.file-title a:visited {text-decoration:none;}div.photo-title a, div.photo-title

a:active, div.photo-title a:hover, div.photo-title a:visited
{text-decoration:none;}div#ygrp-mlmsg #ygrp-msg p a span.yshortcuts
{font-family:Verdana;font-size:10px;font-weight:normal;}.green {color:#628c2a;}.MsoNormal
{margin:0 0 0 0;}o {font-size:0;}#photos div {float:left;width:72px;}#photos div div
{border:1px solid #666666;min-height:62px;overflow:hidden;width:62px;}#photos div label {c
olor:#666666;font-size:10px;overflow:hidden;text-align:center;white-space:nowrap;width:64p
x;}#reco-category {font-size:77%;}#reco-desc {font-size:77%;}.replbq
{margin:4px;}#ygrp-actbar div a:first-child
{margin-right:2px;padding-right:5px;}#ygrp-mlmsg {font-size:13px;font-family:Arial,
helvetica, clean, sans-serif;}#ygrp-mlmsg table {font-size:inherit;font:100%;}#ygrp-mlmsg
select, input, textarea {font:99% Arial, Helvetica, clean, sans-serif;}#ygrp-mlmsg pre,
code {font:115% monospace;}#ygrp-mlmsg * {line-height:1.22em;}#ygrp-mlmsg #logo
{padding-bottom:10px;}#ygrp-msg p a {font-family:Verdana;}#ygrp-msg p#attach-count span
{color:#1E66AE;font-weight:700;}#ygrp-reco #reco-head
{color:#ff7900;font-weight:700;}#ygrp-reco {margin-bottom:20px;padding:0px;}#ygrp-sponsor
#ov li a {font-size:130%;text-decoration:none;}#ygrp-sponsor #ov li
{font-size:77%;list-style-type:square;padding:6px 0;}#ygrp-sponsor #ov ul
{margin:0;padding:0 0 0 8px;}#ygrp-text {font-family:Georgia;}#ygrp-text p {margin:0 0 1em
0;}#ygrp-text tt {font-size:120%;}#ygrp-vital ul li:last-child {border-right:none
!important;}

3106. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-14 17:35:20 UTC
From: patrick@...
Topic: 3095 Message: 3106

Gotcha, I saw that but I was under the (mistaken) impression that there was a certain and more current firmware release where the routers could not be used for our purposes. Nice to know!

Thanks,
Patrick

3107. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-14 17:47:25 UTC
From: lists@...
Topic: 3095 Message: 3107

The problem with the Linksys routers is their limited memory. It isn't possible to host some of the applications on a Linksys that are available to run on the MESH network. Also, since they are single polarization instead of dual, they aren't as efficient as the Ubiquiti hardware.,

The Ubiquiti Nano station has come down pretty far in price. You can get one for about $80 on Amazon, and this unit has dual-polarization and a 90 degree sector antenna built-in. It is also small and light-weight, making it easier to deploy to a higher elevation because it needs less guying and doesn't catch as much wind.

My experience, although probably not as great as some of you, is that using the aREDN firmware on channel -2 has greatly increased throughput, bandwidth, and speed. Distances that aren't available on the main channels, due to their being shared with public WiFi, become tangible when moving down into the ham-only band with channels -1 and -2. There are a couple of clubs in the Tarrant County area that have switched to AREDN and increased the reliability of their MESH network greatly.

The "loss" of ability to use Linksys routers, which don't perform as well as Ubiquiti anyway, is small-potatoes to the advantages gained by using the channels below public WiFi. But as one person said earlier, this only applies to the 2.4GHz band. the 3GHz and 5.8GHz band is available to both AREDN and BBHN.

73
Jason - KC5HWB

3108. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-14 17:50:25 UTC
From: James Gordon Beattie, Jr.
Topic: 3095 Message: 3108

Patrick,

On the WWW.AREDN.ORG web site you will see that there is a test program to make sure what type of device you have (XM or XW) and whether it is running 5.5 or 5.6 Ubiquiti code. You should run that first to make sure you know what you have. Either way if it is 5.6, then you will need to load the appropriate (XM or XW) 5.5 code BEFORE loading the AREDN code.

There is something in the 5.6 Ubiquiti code that makes direct upgrades from 5.6 not work, so downgrading to 5.5 fixes that issue.

In any case, the AREDN mesh code is pretty awesome with built in tunneling and other routing and gateway features.

Feel free to give me a call or drop me another email if you get stuck or have a question.

73,

Gordon Beattie, W2TTT

201.314.6964

Sent from AT&T Mail on Android

From:"patrick@runthisproject.com [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Thu, Jul 14, 2016 at 13:35
Subject:Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Gotcha, I saw that but I was under the (mistaken) impression that there was a certain and more current firmware release where the routers could not be used for our purposes. Nice to know!

Thanks,
Patrick

3109. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-14 17:54:42 UTC
From: James Gordon Beattie, Jr.
Topic: 3095 Message: 3109

Jason,

Keep in mind that AREDN also supports 900 MHZ which is golden for linking when higher bands aren't cutting it.

73,

Gordon Beattie, W2TTT

201.314.6964

Sent from AT&T Mail on Android

From:"lists@grapevinehamradio.com [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Thu, Jul 14, 2016 at 13:47
Subject:Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

The problem with the Linksys routers is their limited memory. It isn't possible to host some of the applications on a Linksys that are available to run on the MESH network. Also, since they are single polarization instead of dual, they aren't as efficient as the Ubiquiti hardware.,

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73

Jason - KC5HWB

3110. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-14 17:56:39 UTC
From: lists@...
Topic: 3095 Message: 3110

Thanks Gordon, I've not tried the 900MHz band yet for MESH. Ubiquiti has had radios for this band for a long time, and I thought I remembered BBHN supporting those at 1 time, but I might be mistaken on that front.

For those interested in AREDN, I recorded the presentation at HamCom this year. It is posted to be YouTube series and you can find it here:
http://www.livefromthehamshack.tv/2016/06/23/episode-47-intro-aredn-mesh-firmware-hamcom-2016/ http://www.livefromthehamshack.tv/2016/06/23/episode-47-intro-aredn-mesh-firmware-hamcom-2016/

73
Jason

3111. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-14 16:58:53 UTC
From: Rusty Haddock
Topic: 3095 Message: 3111

On Thu, Jul 14, 2016 at 9:50 AM, patrick@... [DAWG-HSMM] <
DAWG-HSMM@yahoogroups.com> wrote:

>
>
> Hey Kip, thanks for that input. I'm zero authority on any of this, but
> want to add to it if I can. I would think that we should be trying to go
> down the same path though, too much splintering could hold up proliferation
> and I'd love to see mesh proliferate. In all honesty, should we think of
> the linksys router as a true consideration since (correct me if I'm wrong)
> those routers will eventually break down and nothing new in that line is
> replacing them? Again no authority here but aren't these the old ones and
> once gone are gone?
>

No, that is not the case. The venerable ol' WRT54GL's
are still being produced by Linksys's new-ish owner,
Belkin.
These can STILL be had BRAND NEW, not refurbs.
According to an article I read a month ago, while
Linksys

won't say specifically but they are
still
making

serious $
's
off

of continued manufacture of these
units
alone.

True, the don't have the best radios in the business but they are probably
the most flexible units and still

quite useful.

Shouldn't we opt for frequencies that are not shared with the public? Just
> asking, not saying.
>

Again, there's an equipment problem. For instance, I'd love to use 220-MHz but no one really wants to get equipment for it nor do the manufacturers want to add that capability.
Still, when you can shoot a 2.4-GHz
signal over UT in Austin and still come out several miles away, I don't think it's really THAT much of
a
p
roblem. Use your radio skills -- there's usually a
way.

-Rusty-
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_____
|\/ o \ o Rusty Haddock <=> AE5AE
| (-< O o Somewhere in McKinney, TX
|/__V__/ Math illiteracy affects 7 out of 5 people!

3112. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-14 19:30:17 UTC
From: lists@...
Topic: 3095 Message: 3112

Rusty, get on 220! We are out here!

3113. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-14 21:12:52 UTC
From: James Gordon Beattie, Jr.
Topic: 3095 Message: 3113

By ubyby hhhh hvby GBV t bgbh g BV ggggggggggf gcc hvby gg g gggggggggggggggggggggggggggggggggggg/gggggggggggggggggggggggggggg/////gg////g t bgbh////Hedgesville GBV bgbh TBD g/g TV gg gh g/Greece Heche Bex vexed hexes hexes Dec exceed recede fee exceeded HTC exec/g/execrable exceed recedes Rrc g he a

Sent froc1vvvevffvget r r get r r get r r wm AT&T Mail on Android

From:"Rusty Haddoybck kd4wlz@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Thu, Jul 14, 2016 at 14:41
Subject:Re: [DAWubbjj bGBVgvectorggG-HSMM] DFW mesh with 3.4 GHz?

On Exceeded fe feel like get r revert ff, Jul 14, 2016 at 9:50 AM, peeeatrick@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

numb 6

Hey Kip, thanks for that input. I'm zero authority on any of this, but want to add to it if I can. I would think that we should be trying to go down the same path though, too much splintering could hold up proliferation and I'd love to see mesh proliferate. In all honesty, should we think of the linksys router as a true consideration since (correct me if I'm wrong) those routers will eventually break down and nothing new in that line is replacing them? Again no authority here but aren't these the old ones and once gone are gone?

No, that is not the case. The venerable ol' WRT54GL's

are still being produced by Linksys's new-ish owner,

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These can STILL be had BRAND NEW, not refurbs.

According to an article I read a month ago, while

Linksys

won't say specifically but they are

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True, the don't have the best radios in the business but they are probably the most flexible units and still

quite useful.

Shouldn't we opt for frequencies that are not shared with the public? Just asking, not saying.

Again, there's an equipment problem. For instance, I'd

love to use 220-MHz but no one really wants to get

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-Rusty-

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   _____
|\/   o \   o           Rusty Haddock  <=>  AE5AE

|   (  -<  O o          Somewhere in McKinney, TX
|/\__V__/       Math illiteracy affects 7 out of 5 people!
```

3114. RE: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-14 22:58:29 UTC
From: J. Gordon Beattie, Jr.
Topic: 3095 Message: 3114

Jason,

Yes, Ubiquiti has 900 MHz radios that are worthy of use.

Frankly with all the fixes and enhancements available with AREDN, I don’t know why anyone with Ubiquiti gear would consider using BBHN software. If it is a matter of interoperability, then you simply put your Linksys boxes up with an SSID that matches the AREDN nodes operating on the same channel OR you can use a DtD hardware link.

So what’s the attraction for BBHN? Is there anything they do that is desirable and unavailable with an AREDN node?

73,

Gordon Beattie, W2TTT

201.314.6964

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com]
Sent: Thursday, July 14, 2016 1:57 PM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Thanks Gordon, I've not tried the 900MHz band yet for MESH. Ubiquiti has had radios for this band for a long time, and I thought I remembered BBHN supporting those at 1 time, but I might be mistaken on that front.

For those interested in AREDN, I recorded the presentation at HamCom this year. It is posted to be YouTube series and you can find it here:

http://www.livefromthehamshack.tv/2016/06/23/episode-47-intro-aredn-mesh-firmware-hamcom-2016/

73

Jason

3115. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 01:15:44 UTC
From: Mark Brueggemann
Topic: 3095 Message: 3115

On Thu, 7/14/16, patrick@... [DAWG-HSMM] wrote:

> we should be trying to go down the same path though,
> too much splintering could hold up proliferation and I'd
> love to see mesh proliferate.

Proliferate, in what form? What would the ideal "mesh" look like to you?

My idea of "proliferate" would be to create a well-refined mesh hardware/software package that hams can easily deploy inexpensively and becomes a ubiquitous wireless networking solution for ham activities. More along the lines of a solution used when a bunch of hams do an activity together as opposed to a geographically wide area over the air network. Something as ubiquitous as an FM HT you bring along to an activity and just "works" with others when you turn it on, and isn't a significant hardware investment.

Mark K5LXP
Albuquerque, NM

3116. RE: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 01:25:41 UTC
From: Mark Brueggemann
Topic: 3095 Message: 3116

On Thu, 7/14/16, 'J. Gordon Beattie, Jr.' w2ttt@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

> So what’s the attraction for BBHN? Is there anything they do that
> is desirable and unavailable with an AREDN node?

BBHN runs on a Linksys router. That makes the adoption inexpensive for most hams and works well enough for applications hams would typically do.

You can of course use AREDN for local mesh networks just fine, and I believe at some level they will even work interoperably with BBHN (w/same SSID). But the beauty of BBHN is you can run it on cheap hardware, AREDN can't. I see a whole lot more utility in that for most amateurs in the form of creating an inexpensive throw-down network at Field Day, a public service event or group activity. With the limitations of a Linksys this mesh can only extend so far geographically, but go much beyond that and it's difficult to be a mesh anymore anyway - it becomes point to point which is better served with commercial hardware running OEM software. BBHN is good enough for hobby purposes at a hobby level of investment. Ham radio *is* a hobby. Not every ham interested in trying mesh wants to spend over $100 for a couple of nanostations to load AREDN, and not every ham using mesh wants to become a ham ISP, deploy nodes and support systems in the field. The Linksys is the perfect lowest common denominator platform that "average" hams can acquire, play with and use effectively for a local mesh network. To me this is the "bread and butter" of ham mesh networking, contrasted to AREDN's ham radio ISP mission.

Mark K5LXP
Albuquerque, NM

3117. Re: RE: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 02:06:17 UTC
From: James Gordon Beattie, Jr.
Topic: 3095 Message: 3117

Mark,

I agree with the inherent need for frugality, but we're quibbling over a few dollars vs. A WHOLE BUNCH OF BENEFITS WITH AREDN SOFTWARE.

I guess for indoor applications the Linksys WRT-54GL at $43 on Amazon is OK, but keep in mind that the Ubiquiti M2 Loco is $49 from them and gives you a better receiver, higher power, better AREDN-based features and a weatherproof housing. THAT'S $6! :-)

You can use any old and likely free home router with its DHCP off as an inside unit for ports and as a Wi-Fi access point for your home or shack if you need. That's a better use for any old router in a mesh network and that's where they end up in my AREDN field deployments.

While the mission of the AREDN program is to create a stable alternative to the public Internet and public safety intranets, we have at our disposal better software on better hardware. We create fixed and mobile networks for all kinds of events about 20 or more times a year running video, telephones, web and message services for periods ranging from half a day up to a week. We get the need to have lots of cheap connectivity and we also like the performance and reliability of modern hardware coupled with solid, tested software. Conrad and the rest of the AREDN team fixed and tested a bunch of stuff that is in the last Linksys version, but the state of the code has progressed both in reliability and in features since the AREDN team stopped support for the Linksys gear. While it will interoperable on channels 1-11 @ 20 MHZ BW, the newer Ubiquiti code is more reliable, and can be used on quieter non-Wi-Fi channels and/or with non-standard bandwidths which improves performance. Further, there is both performance and security improvements with the use of 5 or 10 MHZ BW as most home network tools won't see those nodes.

One last point, undiscounted on Amazon you can find the M2 Nanostation for $78, not $100.

Give this Ubiquiti and AREDN stuff a fresh look and I think you will be pleased.

73,

Gordon Beattie, W2TTT

201.314.6964

Sent from AT&T Mail on Android

From:"Mark Brueggemann qrq_cw@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Thu, Jul 14, 2016 at 21:25
Subject:RE: [DAWG-HSMM] DFW mesh with 3.4 GHz?

On Thu, 7/14/16, 'J. Gordon Beattie, Jr.' w2ttt@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

> So what’s the attraction for BBHN? Is there anything they do that
> is desirable and unavailable with an AREDN node?

BBHN runs on a Linksys router. That makes the adoption inexpensive for most hams and works well enough for applications hams would typically do.

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Mark K5LXP
Albuquerque, NM

3118. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 04:41:01 UTC
From: Patrick Bouldin
Topic: 3095 Message: 3118

Hey Mark,

Yes I agree with that pretty much. I will say though I'm thinking that standardization is best in something like this, and if AREDN can provide a lot more features at close to the same cost then I'd have to lean that way - but I'm still a newbie on this stuff.

Not so much a newbie however on I.T. related areas - or my 40 years in ham radio (dang I'm old). To your question what should a mesh look like to me? I'd say a cluster of clients living nearby and using a gateway to connect to other clusters and apps hosted on backbone facilities - I'd think the gateway would be on some tall building, or someone's tall tower. I'd challenge everyone to make that part of their station 100% solar, or at least a small genset ready to go, and an automatic transfer switch activated from the GPIO pins of a $5 raspberry pi (lol, you asked). Would then love to see some cool emcom apps and also fun ham apps.

73,
Patrick KM5L

On Thu, Jul 14, 2016 at 8:15 PM, Mark Brueggemann qrq_cw@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

>
>
> On Thu, 7/14/16, patrick@... [DAWG-HSMM] wrote:
>
> > we should be trying to go down the same path though,
> > too much splintering could hold up proliferation and I'd
> > love to see mesh proliferate.
>
> Proliferate, in what form? What would the ideal "mesh" look like to you?
>
> My idea of "proliferate" would be to create a well-refined mesh
> hardware/software package that hams can easily deploy inexpensively and
> becomes a ubiquitous wireless networking solution for ham activities. More
> along the lines of a solution used when a bunch of hams do an activity
> together as opposed to a geographically wide area over the air network.
> Something as ubiquitous as an FM HT you bring along to an activity and just
> "works" with others when you turn it on, and isn't a significant hardware
> investment.
>
> Mark K5LXP
> Albuquerque, NM
>
>

3119. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 12:28:28 UTC
From: Mark Brueggemann
Topic: 3095 Message: 3119

On Thu, 7/14/16, Patrick Bouldin patrick@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

> what should a mesh look like to me? I'd say a cluster of clients
> living nearby and using a gateway to connect to other
> clusters and apps hosted on backbone facilities

Ideally, I agree. But realistically that's impossible. There isn't enough amateur population density to support "blanketing" a coverage area like that. So the prevailing solution is narrow beamwidth links and tunneling. That's not mesh, and it's not easy.

> - I'd think the gateway would be on some tall building,

If you put an omni node where it has a wide visibility, you suffer from hidden terminal. Mesh in ham context only works in small simple networks. Too many nodes/too much coverage and mesh will fall in on itself.

> I'd challenge everyone to make that part of their station 100% solar,

My node was up for the better part of a year. Nary a single connect not counting myself.

> Would then love to see some cool emcom apps and also
> fun ham apps.

It does need some "killer apps" to inspire greater adoption. IP phones and cameras are pretty useful and the chat application I saw demo'd at Hamcom last month looked interesting. Hams aren't so much interested in networking but when it gives them a program or function that they really like or need, then the end justifies the means. Having that connectivity reduced to a plug and play box at a nominal cost makes the Linksys solution an easier option to sell.

Just my experience so far.

Mark K5LXP
Albuquerque, NM

3120. Re: RE: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 12:12:50 UTC
From: Mark Brueggemann
Topic: 3095 Message: 3120

On Thu, 7/14/16, 'James Gordon Beattie, Jr.' w2ttt@... wrote:

> we're quibbling over a few dollars

On that point, my average investment into a linksys is about $10. Yes, used. There's millions of them out there and easy to find. That's a couple happy meals. Most hams have no issue coming up with that.

> undiscounted on Amazon you can find the M2
> Nanostation for $78, not $100.

Right, but you need two to tango. Chances are slim to none any given ham lives close enough to connect to anyone else. You can't do anything with just one.

> we have at our disposal better software on better hardware.

I agree with that. But at a much higher cost. I'm dying on that hill. Mesh is such a specialized application I know a *lot* of hams have no interest in buying two or more M2's (or other more expensive bands/versions) just to set up a simple local network. But at ~$10 a pop for a Linksys, that's easy. I've done enough demo's at conventions and hamfests to learn this firsthand. The Linksys solution gets all the attention. Network geeks/hams on a mission would have no problem investing hundreds into better performing hardware but that's not the greater demographic among hams. My perspective is to promote adoption of a basic networking tool. When you start talking backbones, multiple bands, tunneling, et al you're way past "mesh" and well into custom networking. That's not most hams. As a "when all else fails" tool it's a niche within a niche (emcomm/ham ISP) and frankly done better with commercial solutions.

Mark K5LXP
Albuquerque, NM

3121. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 13:01:56 UTC
From: Dallas KD4HNX
Topic: 3095 Message: 3121

(Sorry if this gets posted twice... Yahoo mail froze so I sent it a 2nd time)

Patrick,You have just said word for wordhow I've proposed that we build out MESH here in Austin... Simply ahand full of folks find a tall site and link to it, could be a water tower,radio tower, church, hospital... Create a cluster of hams and as the wordgets out an more want to play another group could copy it... The trick is toget the first group to document how they did it and what they learned along theway... I don't want to make the same mistakes 345 others have... Iwant to make new mistakes... By the time youhave 3-4-5 clusters they can start to look for ways to link them using someUbquiti gear to build a high speed backbone... IMHO the backbone shouldbe on the commercial channels where the admins can password block and controlthe network... The MESH (Ham Radio data) just rides on thebackbone... Some don't like my plan because it would use commercial gearon commercial channels and that's not Ham Radio... OK, but it is still radioand and it has Ham Radio hanging on at both ends kinda like IRLP... Theswitch to a password controlled backbone doesn't have to be done on dayone... It could be done later right after the network gets hacked andsomebody causes the backbone to crash... The other half just hate my namefor it; Amateur Radio MicrowaveProject Interconnecting Tall Structures, ARMPITS...
But that's justwhat you described... I simply gave it a name close to a year ago and I'm the only one that seems to like it...
 Here in Austin and thesurrounding counties we have 30+ hospitals, EOCs, Fire Dept's, Police Stationswhere we have 2 or more dual band radios, PCs, TNCs running 1200 baud packet tosend email via Winlink... We have access to most of the roofs to doantenna maintenance... Build clusters, link clusters viaa backbone, build more clusters, link more clusters via a back bone... Wash, rinse, repeat...
If the backbone is a secure network that commercial "encrypted" traffic could be sent over then the ARES served agencies like hospitals, police, fire, ems, red cross etc could use it to hop over internet outage... All the MESH traffic gets a free ride on the backbone...
IMHO having a commercial RADIO link (built and maintained by Hams) in the middle of a MESH Ham sandwich is more ham radio than using tunnel hardware and the Internet to link clusters of nodes...

I guess the third thing is they don't like is me calling it a Ham sandwich...

(Sorry if this gets posted twice... Yahoo mail froze so I sent it a 2nd time)

73 Dallas, KD4HNX
Whatever you do, don’t fall victim to “paralysis by analysis.” Go ahead and buy/build one and start tinkering with it. This is a learn by doing hobby.

No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!

From: "Patrick Bouldin patrick@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Thursday, July 14, 2016 11:41 PM

Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Hey Mark,
Yes I agree with that pretty much. I will say though I'm thinking that standardization is best in something like this, and if AREDN can provide a lot more features at close to the same cost then I'd have to lean that way - but I'm still a newbie on this stuff.
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73,Patrick KM5L
On Thu, Jul 14, 2016 at 8:15 PM, Mark Brueggemann qrq_cw@...m [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

On Thu, 7/14/16, patrick@... [DAWG-HSMM] wrote:

> we should be trying to go down the same path though,
> too much splintering could hold up proliferation and I'd
> love to see mesh proliferate.

Proliferate, in what form? What would the ideal "mesh" look like to you?

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Mark K5LXP
Albuquerque, NM

3122. Re: RE: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 13:16:31 UTC
From: James Gordon Beattie, Jr.
Topic: 3095 Message: 3122

Well Mark, there is no question that used WRT-54G's can be had for a lower price. Here in the northeast they typically go for $20-30, but that's the reality of the northeast. If you want a WRT-54GS then you are in the $40-60 range because of demand by non- ham DD-WRT, Mesh Potato, etc. users. To me that really makes no sense.

I think the role of the Linksys boxes is as I've described previously or as Jim Kinter, K5KTF observed that they are good for table top learning.

As you noted, you aren't going to create much in the way of an emergency network between sites with Linksys boxes when all else fails. Weatherproofing, amplifying and all the support stuff is expensive for a Linksys compared to a Ubiquiti. I know this, as I have built several Linksys nodes and have gradually replaced for significantly less money except for a Rocketdish that I picked up from Randy, WU2S when I had a fit of annoyance over the poor quality of one link! :-)

In my everyday mobile I use an M2 Nanostation. It costs a little more than a Boafeng, which is clearly ham-frugal. It's biggest environmental challenge are the bugs shmooshed on the white front. :-) I will either paint it, or replace it with an M2 Rocket with painted antennas. That will give me an omni pattern, so the idea is attractive. I'll send a photo later if photos can be posted here.

73,

Gordon, W2TTT

201.314.6964

Sent from AT&T Mail on Android

From:"Mark Brueggemann qrq_cw@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Fri, Jul 15, 2016 at 8:35
Subject:Re: RE: [DAWG-HSMM] DFW mesh with 3.4 GHz?

On Thu, 7/14/16, 'James Gordon Beattie, Jr.' w2ttt@... wrote:

> we're quibbling over a few dollars

On that point, my average investment into a linksys is about $10. Yes, used. There's millions of them out there and easy to find. That's a couple happy meals. Most hams have no issue coming up with that.

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Mark K5LXP
Albuquerque, NM

3123. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 13:28:52 UTC
From: James Gordon Beattie, Jr.
Topic: 3095 Message: 3123

ARMPITS!

LOVE IT!

Sent from AT&T Mail on Android

From:"Dallas KD4HNX mylastname@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Fri, Jul 15, 2016 at 9:02
Subject:Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

(Sorry if this gets posted twice... Yahoo mail froze so I sent it a 2nd time)

Patrick,

You have just said word for word how I've proposed that we build out MESH here in Austin...

Simply a hand full of folks find a tall site and link to it, could be a water tower, radio tower, church, hospital... Create a cluster of hams and as the word gets out an more want to play another group could copy it... The trick is to get the first group to document how they did it and what they learned along the way... I don't want to make the same mistakes 345 others have... I want to make new mistakes...

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The other half just hate my name for it; Amateur Radio Microwave Project Interconnecting Tall Structures, ARMPITS... But that's just what you described... I simply gave it a name close to a year ago and I'm the only one that seems to like it...

Here in Austin and the surrounding counties we have 30+ hospitals, EOCs, Fire Dept's, Police Stations where we have 2 or more dual band radios, PCs, TNCs running 1200 baud packet to send email via Winlink... We have access to most of the roofs to do antenna maintenance...

Build clusters, link clusters via a backbone, build more clusters, link more clusters via a back bone... Wash, rinse, repeat...

If the backbone is a secure network that commercial "encrypted" traffic could be sent over then the ARES served agencies like hospitals, police, fire, ems, red cross etc could use it to hop over internet outage... All the MESH traffic gets a free ride on the backbone...

IMHO having a commercial RADIO link (built and maintained by Hams) in the middle of a MESH Ham sandwich is more ham radio than using tunnel hardware and the Internet to link clusters of nodes...

I guess the third thing is they don't like is me calling it a Ham sandwich...

(Sorry if this gets posted twice... Yahoo mail froze so I sent it a 2nd time)

73 Dallas, KD4HNX
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No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!

From: "Patrick Bouldin patrick@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Thursday, July 14, 2016 11:41 PM
Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Hey Mark,

Yes I agree with that pretty much. I will say though I'm thinking that standardization is best in something like this, and if AREDN can provide a lot more features at close to the same cost then I'd have to lean that way - but I'm still a newbie on this stuff.

Not so much a newbie however on I.T. related areas - or my 40 years in ham radio (dang I'm old). To your question what should a mesh look like to me? I'd say a cluster of clients living nearby and using a gateway to connect to other clusters and apps hosted on backbone facilities - I'd think the gateway would be on some tall building, or someone's tall tower. I'd challenge everyone to make that part of their station 100% solar, or at least a small genset ready to go, and an automatic transfer switch activated from the GPIO pins of a $5 raspberry pi (lol, you asked). Would then love to see some cool emcom apps and also fun ham apps.

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Patrick KM5L

On Thu, Jul 14, 2016 at 8:15 PM, Mark Brueggemann qrq_cw@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

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Proliferate, in what form? What would the ideal "mesh" look like to you?

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Something as ubiquitous as an FM HT you bring along to an activity and just "works" with others when you turn it on, and isn't a significant hardware investment.

Mark K5LXP
Albuquerque, NM

3124. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 13:54:02 UTC
From: Dallas KD4HNX
Topic: 3095 Message: 3124

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From: "'James Gordon Beattie, Jr.' w2ttt@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@yahoogroups.com>; "DAWG-HSMM@...m" <DAWG-HSMM@yahoogroups.com>
Sent: Friday, July 15, 2016 8:28 AM
Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

| ARMPITS!LOVE IT!

Sent from AT&T Mail on Android
| From:"Dallas KD4HNX mylastname@yahoo.com [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Fri, Jul 15, 2016 at 9:02
Subject:Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

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To: DAWG-HSMM@yahoogroups.com
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Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

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|

|

3125. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 14:58:45 UTC
From: patrick@...
Topic: 3095 Message: 3125

Hey Dallas, sounds good, I do think we're thinking along the same lines, hub and spoke, connect the hubs with backbones. Curious about your comment that hams don't like using commercial gear, what's an example of that comment? You mean commercial gear that was not initially intended for ham use? Otherwise, anything we use that's not homebrew is commercial, even if built for the ham community. Kudos to hams for exercising innovation. That's what makes the world spin, innovation - that's what pi is all about, for sure.

On the other hand, I am also understanding why Mark is saying what he's saying. He's living in a not so dense area, just flat not enough density in intertest maybe to do hub and spoke. So maybe there has to be more than one approach to accommodate most scenarios.

Mark, on the tunneling, are you talking about tunneling/backhauling ham traffic via internet? Wasn't clear on that point.

73,
Patrick KM5L

3126. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 15:16:41 UTC
From: Dallas KD4HNX
Topic: 3095 Message: 3126

Patrick,By commercial gear on commercial frequencies, I'm talking about Ubquiti gear using stock software using Part 15 regs or using Ubquiti gear on 3.65 where you have to get a license but I understand the FCC is not issuing those and has put a freeze on them...

Said another way any freq/channel that we as citizens could encrypt but as hams we are not allowed...
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From: "patrick@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Friday, July 15, 2016 9:58 AM
Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

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3127. RE: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 15:50:42 UTC
From: J. Gordon Beattie, Jr.
Topic: 3095 Message: 3127

Dallas,

You could always put them in the 3.4 GHz Ham band and obtain the benefits of a quieter band and avoid the commercial licensing issues.

73,

Gordon Beattie, W2TTT

201.314.6964

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com]
Sent: Friday, July 15, 2016 11:17 AM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

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3128. RE: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 16:03:41 UTC
From: lists@...
Topic: 3095 Message: 3128

Linksys routers are cheap, but they don't perform as well as Ubiquiti. So liken it to - do you own a Baofeng HT? Is it your only HT, or do you also have an Icom or Yaesu at $250-$350.each for a 5-watt HT? Why spend that kind of money when you can get a Baofeng for $35?

Quality. That is why.

The Ubiquiti is made for outdoor use, and the Nano and Rocket stations are dual-polarization, making for a better connection. Even when I had BBHN firmware running on all my nodes, I was still using Ubiquiti an seeing drastic improvements in performance. So, to me, using the Linksys stuff doesn't help the network anyway. I can see the advantages of getting people involved, but by the time you spend the extra money on an outdoor enclosure, external antennas and cabling, and everything you would need to mount the node outside so that it could see other nodes, you are up to much more than the $10 you paid for your used router.

Jason

3129. RE: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 16:02:53 UTC
From: J. Gordon Beattie, Jr.
Topic: 3095 Message: 3129

Dallas,

I've been a fan of mesh networks and in AREDN in particular. I was a member of the development team but family health issues got me off the team. I still think that the guys are the best focused on getting good quality software into the field, no matter your thoughts about their mission. Their stuff works in a wide variety of applications and situations and they are managing to address issues in a rational manner while also growing the feature set in a methodical manner. Kudos to them!

We have an issue with site access here in northern New Jersey because of tiny towns with strong home rule and a lack of collaboration, small hills that block 2 mile paths, and commercial site access that requires real money to use. No one does things for the public good because of either risk aversion or money. We are making some political progress, but it will take time to align the planets. In the meantime we have islands of nodes in some communities, some of which are tunneled, but most are not.

I confuse people by using my middle name, "Gordon". Actually, my Dad was "James Gordon" and he was called "Gordon" by his parents as well, so we can blame them. When my wife and I had our first son, we named him "James Gordon" as well, but my wife didn't want to deal with three "Gordons". Now he doesn't get to use his middle name to filter out telemarketers like my Dad and I did/do. :)

73,

Gordon Beattie, W2TTT

201.314.6964

From: DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com]
Sent: Friday, July 15, 2016 9:54 AM
To: DAWG-HSMM@yahoogroups.com
Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

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Sent: Friday, July 15, 2016 8:28 AM
Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

ARMPITS!

LOVE IT!

Sent from AT <https://att.overview.mail.yahoo.com/mobile/?.src=Android> &T Mail on Android

---

From:"Dallas KD4HNX mylastname@... <mailto:mylastname@...> [DAWG-HSMM]"
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Albuquerque, NM

3130. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 16:11:05 UTC
From: Bill Vodall
Topic: 3095 Message: 3130

> You have just said word for word how I've proposed that we build out MESH here in Austin...

You've pretty much described Hamwan.

http://www.hamwan.org

> Simply a hand full of folks find a tall site and link to it, could be a water tower, radio tower, church, hospital... Create a cluster of hams and as the word gets out an more want to play another group could copy it... The trick is to get the first group to document how they did it and what they learned along the way... I don't want to make the same mistakes 345 others have... I want to make new mistakes...
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3131. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 18:54:30 UTC
From: Mark Brueggemann
Topic: 3095 Message: 3131

On Fri, 7/15/16, Dallas KD4HNX mylastname@... wrote:

> Simply a hand full of folks find a tall site and link to it, could be
> a water tower, radio tower, church, hospital...
...
> I don't want to make the same mistakes 345 others have...

Then don't put an omni node on a tall site. It will hear everything but the nodes connecting to it can't, so there will be so many collisions nothing will get through. This is known as hidden terminal.

Additionally, and this is a point it seems many involved with mesh don't have a feel for, omnidirectional nodes are difficult to do and get any useful range out of. Hams are very familiar with narrowband, e.g. 2M FM where a quarter watt from a clear site can carry for miles. But wideband microwave works very differently and between that and hidden terminal, a "central" good coverage site hub and spoke model doesn't work well. You're better off with a number of shorter range nodes that only hear a few other nodes and can route through them. What a mesh is.

Mark K5LXP
Albuquerque, NM

3132. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 19:05:39 UTC
From: Mark Brueggemann
Topic: 3095 Message: 3132

On Fri, 7/15/16, Dallas KD4HNX mylastname@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

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> cross etc could use it to hop over internet outage...
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OK, now take it a step further - what value is mesh adding to this solution? If all you're doing is providing a point to point link over commercial hardware, I don't see what adding a nonencrypted end link over RF is adding. If wireless is needed at the endpoint, connect up a wifi router and be done with it. Taking it another step further, what do they need hams for? This is a commercial solution. There are people that make a living setting up, maintaining and administering commercial data links like this with hardware a lot better than ubiquiti. So I see little point to the ham ISP gig unless all you want to do is spend your time and money providing a free service that anyone else would have to pay for.

Mark K5LXP
Albuquerque, NM

3133. Re: RE: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 19:18:22 UTC
From: Mark Brueggemann
Topic: 3095 Message: 3133

On Fri, 7/15/16, 'James Gordon Beattie, Jr.' wrote:

> Here in the northeast they typically go for $20-30, but that's
> the reality of the northeast.

eBay has different prices there? Often you need to buy in quantity to get a good deal there, but it's not hard to do.

> Weatherproofing, amplifying and all the support stuff is
> expensive for a Linksys compared to a Ubiquiti.

Agreed. I've got both. I use both.

> In my everyday mobile I use an M2 Nanostation. It costs a
> little more than a Boafeng, which is clearly ham-frugal.

That's the analogy I use the most. There is no question you can buy an HT way better than a baofeng. But a *lot* of people buy baofengs. The mesh networks I demonstrate and use work fine with a Linksys. It demonstrates the function and brings hams in at a price point that isn't prohibitive. By the time you need the performance of a ubiquity you know what you're doing. There are far more ham applications requiring simple networks than advanced ones. The Linksys checks that box. It's the baofeng of mesh networking. Maybe someday AREDN will load and run on a $15 cheap chinese router. That will be the day I change my tune but today it's BBHN on a Linksys.

Mark K5LXP
Albuquerque, NM

3134. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 19:42:40 UTC
From: patrick@...
Topic: 3095 Message: 3134

Mark, I think we've finally hit the sweet spot of the conversation. It's not about the network per se, it "is" about the applications used on the network. But, it's also about the fun and learning doing it. To your point earlier about lack of interest in your area, what's the fun in building if nobody connects? So it has to start with the application, one that many will want to be involved!

Right now I'm lining up a neighborhood meeting here in east Dallas. I've located and conversed with about a dozen hams who will get together and meet just to get to know the local hams. But at the same meeting I am going to see if they have interest in building a mesh. But, what am I selling? Just the network? I don't think that's enough.

Yes you're correct, professionals do provide the same, but for the specific mission they are employed - Red Cross for example, or Civil Defense, etc.

Hams on the other hand can pick and choose what makes the most sense in public service. I think you have to start with an anchor application that is useful in most parts of the country. I would not think that's a video camera or a VOIP phone necessarily.

Let's say we could agree on a application that inputs and tracks local distribution of food, services and emergency response. Forget about the details, but envision the internet is down and this system is up providing vital information to the local masses. Also, don't worry about how the stations disseminate the info to the masses, there could be several good ideas.

Once we have "the killer application" then we can put in the network that makes the most sense for it, and we have some time to add fun apps and other useful ham stuff as well. Actually, the overall mission might start with the ham application that will draw many into the network, then focus on the public service app and process.

I think that until the applications of true interest become desirable to many people then we could flounder around for many more years with a hodgepodge of technology and not too much progress.

Disclaimer - I'm totally impressed with what's been done to date!!! Those folks are doing it for the love of the technology, accomplishment and public service.

73, Patrick
KM5L

---In DAWG-HSMM@yahoogroups.com, <qrq_cw@...> wrote :

On Fri, 7/15/16, Dallas KD4HNX mylastname@... mailto:mylastname@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com mailto:DAWG-HSMM@yahoogroups.com> wrote:

> If the backbone is a secure network that commercial
> "encrypted" traffic could be sent over then the
> ARES served agencies like hospitals, police, fire, ems, red
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Mark K5LXP
Albuquerque, NM

3135. Re: RE: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 19:48:56 UTC
From: James Gordon Beattie, Jr.
Topic: 3095 Message: 3135

Mark,

I won't convince you, but at 58, I have too much life behind me to waste the wisdom of my years, and too little time left to continue this discussion or to deal with the poor quality of the BBHN/Linksys combo.

Heck even Jim Kinter thinks they are teaching tools or for simple installations and he cut his teeth on them!

73,

Gordon Beattie, W2TTT

201.314.6964

Sent from AT&T Mail on Android

From:"Mark Brueggemann qrq_cw@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Fri, Jul 15, 2016 at 15:18
Subject:Re: RE: [DAWG-HSMM] DFW mesh with 3.4 GHz?

On Fri, 7/15/16, 'James Gordon Beattie, Jr.' wrote:

> Here in the northeast they typically go for $20-30, but that's
> the reality of the northeast.

eBay has different prices there? Often you need to buy in quantity to get a good deal there, but it's not hard to do.

> Weatherproofing, amplifying and all the support stuff is
> expensive for a Linksys compared to a Ubiquiti.

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Mark K5LXP
Albuquerque, NM

- -

3136. New file uploaded to DAWG-HSMM

Yahoo group: DAWG-HSMM
Date: 2016-07-15 20:00:08 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 3136 Message: 3136

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the DAWG-HSMM
group.

File : /Jim Haynie letter-.doc
Uploaded by : km5l <patrick@...>
Description : In 2003 I wrote a letter to ARRL (Jim Haynie). My career is very much internet related and so I could clearly see possible innovation of the conventional TCP/IP internet networking to a private amateur radio solution. 13+ years later some awesome work has been done on the network, but I'm still not seeing the killer app. The web browser was the killer app that drove people to the internet, it provided a reason to use the network. Without it, we'd still have a few people using BBS and no real internet. Same here, we need a series of applications that hams will want to participate in. Not just voip phones and cameras, but applications in emcom and desirable ham radio activity.

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/DAWG-HSMM/files/Jim%20Haynie%20letter-.doc

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

km5l <patrick@...>

3137. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 20:19:21 UTC
From: James Gordon Beattie, Jr.
Topic: 3095 Message: 3137

Patrick,

Well yes, you need applications for everyday use to sell the idea beyond that of a backup network, which is an important goal in its own right.

You might consider a WinLink or ECHOLINK gateway, a video or audio conference bridge, all on an Asterisk server for VoIP applications, including voicemail and test numbers, a file or web server for your club resources and my favorite, a weather server that collects the weather from many points and maps it with an NWS radar overlay.

In any case you can add cameras and other interesting toys. It can also be a vehicle to teach fellow hams about how this stuff works. Personal web pages in a club directory might be one idea to teach html, php, java, MySQL, et al.

73,

Gordon Beattie, W2TTT

201.314.6964

Sent from AT&T Mail on Android

From:"patrick@runthisproject.com [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Fri, Jul 15, 2016 at 15:42
Subject:Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Mark, I think we've finally hit the sweet spot of the conversation. It's not about the network per se, it "is" about the applications used on the network. But, it's also about the fun and learning doing it. To your point earlier about lack of interest in your area, what's the fun in building if nobody connects? So it has to start with the application, one that many will want to be involved!

Right now I'm lining up a neighborhood meeting here in east Dallas. I've located and conversed with about a dozen hams who will get together and meet just to get to know the local hams. But at the same meeting I am going to see if they have interest in building a mesh. But, what am I selling? Just the network? I don't think that's enough.

Yes you're correct, professionals do provide the same, but for the specific mission they are employed - Red Cross for example, or Civil Defense, etc.

Hams on the other hand can pick and choose what makes the most sense in public service. I think you have to start with an anchor application that is useful in most parts of the country. I would not think that's a video camera or a VOIP phone necessarily.

Let's say we could agree on a application that inputs and tracks local distribution of food, services and emergency response. Forget about the details, but envision the internet is down and this system is up providing vital information to the local masses. Also, don't worry about how the stations disseminate the info to the masses, there could be several

good ideas.

Once we have "the killer application" then we can put in the network that makes the most sense for it, and we have some time to add fun apps and other useful ham stuff as well. Actually, the overall mission might start with the ham application that will draw many into the network, then focus on ! the public service app and process.

I think that until the applications of true interest become desirable to many people then we could flounder around for many more years with a hodgepodge of technology and not too much progress.

Disclaimer - I'm totally impressed with what's been done to date!!! Those folks are doing it for the love of the technology, accomplishment and public service.

73, Patrick

KM5L

---In DAWG-HSMM@yahoogroups.com, <qrq_cw@...> wrote :

On Fri, 7/15/16, Dallas KD4HNX mylastname@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

> If the backbone is a secure network that commercial
> "encrypted" traffic could be sent over then the
> ARES served agencies like hospitals, police, fire, ems, red
> cross etc could use it to hop over internet outage...
> All the MESH traffic gets a free ride on the backbone...

OK, now take it a step further - what value is mesh adding to this solution? If all you're doing is providing a point to point link over commercial hardware, I don't see what adding a nonencrypted end link over RF is adding. If wireless is needed at the endpoint, connect up a wifi router and be done with it. Taking it another step further, what do they need hams for? This is a commercial solution. There are people that make a living setting up, maintaining and administering commercial data links like this with hardware a lot better than ubiquiti. So I see little point to the ham ISP gig unless all you want to do is spend your time and money providing a free service that anyone else would have to pay for.

Mark K5LXP
Albuquerque, NM

3138. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 21:39:29 UTC
From: Bill Vodall
Topic: 3095 Message: 3138

> Once we have "the killer application"

Facebook...

>

Really. It does almost anything on the table.

There are open source free clones available... All we need is to
come up with a federated server solution that runs on rPI's or NUC's,

73
Bill, WA7NWP

3139. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-15 22:12:15 UTC
From: James Gordon Beattie, Jr.
Topic: 3095 Message: 3139

Bill,

Facebook is for old people...is that us?

:-)

Point taken however...something useful and friendly, but I find FB to be confusing. I can never find things there. Hopefully the open source clones are better.

The general issue of application federation platform service is something of general utility and should be pursued.

73,

Gordon Beattie, W2TTT

201.314.6964

Sent from AT&T Mail on Android

From:"Bill Vodall wa7nwp@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Fri, Jul 15, 2016 at 17:39
Subject:Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

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Facebook...

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come up with a federated server solution that runs on rPI's or NUC's,

73
Bill, WA7NWP

3140. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-16 00:47:10 UTC
From: Dallas KD4HNX
Topic: 3095 Message: 3140

Sorry for the slow response... Job interviews trump MESH chatter via email...
MESH doesn't bring much to the table for a network if the hospitals and public safety folks wanted such a wifi network they could go out and buy it... It would cost them millions for a 30 site, muliti-county network while we could do it on the cheap for much less...

If they build it we don't get to play on it... .Just ask the cop or fireman to let you talk on one of their radios for the afternoon... As tax payers we bought it but we don't get to play... If they build it we don't get to do all the RF plots and testing or figuring out how to make it work... We learn ZIP...
If we build it we get to play and just in case the world almost comes to an end we get to put on our ARES hats, shirts, vest and save the day and give them a small part of the internet for such things as:
WebEOC...EM Tracker...VoIP phones...Conferance calls...Video conferenceseMail...FTP file transfer...

We get to do all of the above things plusWe as hams get to link repeaters...Supply the Internet to APRS igates...
:

73 Dallas, KD4HNX
Whatever you do, don’t fall victim to “paralysis by analysis.” Go ahead and buy/build one and start tinkering with it. This is a learn by doing hobby.

No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!

From: "Mark Brueggemann qrq_cw@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Friday, July 15, 2016 2:05 PM
Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

On Fri, 7/15/16, Dallas KD4HNX mylastname@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

> If the backbone is a secure network that commercial
> "encrypted" traffic could be sent over then the
> ARES served agencies like hospitals, police, fire, ems, red
> cross etc could use it to hop over internet outage...
> All the MESH traffic gets a free ride on the backbone...

OK, now take it a step further - what value is mesh adding to this solution? If all you're doing is providing a point to point link over commercial hardware, I don't see what adding a nonencrypted end link over RF is adding. If wireless is needed at the endpoint, connect up a wifi router and be done with it. Taking it another step further, what do they need hams for? This is a commercial solution. There are people that make a living setting up, maintaining and administering commercial data links like this with hardware a lot better

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Mark K5LXP
Albuquerque, NM

3141. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-16 01:18:06 UTC
From: James Gordon Beattie, Jr.
Topic: 3095 Message: 3141

Exactly!

And do it with credible, but cost effective gear and not outdated stuff.

Sent from AT&T Mail on Android

From:"Dallas KD4HNX mylastname@yahoo.com [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Fri, Jul 15, 2016 at 20:47
Subject:Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

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If we build it we get to play and just in case the world almost comes to an end we get to put on our ARES hats, shirts, vest and save the day and give them a small part of the internet for such things as:

WebEOC...

EM Tracker...

VoIP phones...

Conferance calls...

Video conferences

eMail...

FTP file transfer...

We get to do all of the above things plus

We as hams get to link repeaters...

Supply the Internet to APRS igates...

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From: "Mark Brueggemann qrq_cw@...m [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Friday, July 15, 2016 2:05 PM
Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

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Mark K5LXP
Albuquerque, NM

3142. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-16 01:19:21 UTC
From: James Gordon Beattie, Jr.
Topic: 3095 Message: 3142

Hope the interviews went well!

Sent from AT&T Mail on Android

From:"Dallas KD4HNX mylastname@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Fri, Jul 15, 2016 at 20:47
Subject:Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

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Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

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Mark K5LXP
Albuquerque, NM

3143. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-16 11:40:55 UTC
From: Kipton Moravec
Topic: 3095 Message: 3143

The attraction of BBHN is stability. Do not want to be updating all of the nodes multiple times a year.

Kip

On 07/14/2016 05:58 PM, 'J. Gordon Beattie, Jr.' w2ttt@...
[DAWG-HSMM] wrote:
>
>
> Jason,
>
> Yes, Ubiquiti has 900 MHz radios that are worthy of use.
>
> Frankly with all the fixes and enhancements available with AREDN, I
> don’t know why anyone with Ubiquiti gear would consider using BBHN
> software. If it is a matter of interoperability, then you simply put
> your Linksys boxes up with an SSID that matches the AREDN nodes
> operating on the same channel OR you can use a DtD hardware link.
>
> So what’s the attraction for BBHN? Is there anything they do that is
> desirable and unavailable with an AREDN node?
>
> 73,
>
> Gordon Beattie, W2TTT
>
> 201.314.6964
>
> *From:*DAWG-HSMM@yahoogroups.com [mailto:DAWG-HSMM@yahoogroups.com]
> *Sent:* Thursday, July 14, 2016 1:57 PM
> *To:* DAWG-HSMM@yahoogroups.com
> *Subject:* Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?
>
> Thanks Gordon, I've not tried the 900MHz band yet for MESH. Ubiquiti
> has had radios for this band for a long time, and I thought I
> remembered BBHN supporting those at 1 time, but I might be mistaken on
> that front.
>
> For those interested in AREDN, I recorded the presentation at HamCom
> this year. It is posted to be YouTube series and you can find it here:
>
> http://www.livefromthehamshack.tv/2016/06/23/episode-47-intro-aredn-mesh-firmware-hamcom
-2016/
>
> 73

>
> Jason
>
>
>
>

3144. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-16 12:40:41 UTC
From: Kipton Moravec
Topic: 3095 Message: 3144

The approach we are working on in Collin County is to do long distance point-to-point using Ubiquity off the shelf software with BBHN networks at each point.

We will use the "bad old Linksys" routers inside buildings to provide the last 100 yards of the network. ARDEN does not support Linksys. Also neither router is good for applications. BBHN is also working on Raspberry Pi application because it has way more memory and processing power than a ubiquity or linksys router. That is where the applications are. They will seamlessly work in the BBHN network, but no telling how long it will work in the ARDEN network.

Right now the largest network is in Austin with BBHN. They have learned a few things over the years and one of the biggest lessons learned is to have stable SW and not put out upgrades all the time. When you have a lot of nodes it is hard to keep up.

Look at Winlink for an example of being hard to keep up with updates.

Kip

On 07/15/2016 02:42 PM, patrick@... [DAWG-HSMM] wrote:
>
>
> Mark, I think we've finally hit the sweet spot of the conversation.
> It's not about the network per se, it "is" about the applications used
> on the network. But, it's also about the fun and learning doing it. To
> your point earlier about lack of interest in your area, what's the fun
> in building if nobody connects? So it has to start with the
> application, one that many will want to be involved!
>
> Right now I'm lining up a neighborhood meeting here in east Dallas.
> I've located and conversed with about a dozen hams who will get
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> meeting I am going to see if they have interest in building a mesh.
> But, what am I selling? Just the network? I don't think that's enough.
>
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> specific mission they are employed - Red Cross for example, or Civil
> Defense, etc.
>
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> application that is useful in most parts of the country. I would not
> think that's a video camera or a VOIP phone necessarily.
>

> Let's say we could agree on a application that inputs and tracks local
> distribution of food, services and emergency response. Forget about
> the details, but envision the internet is down and this system is up
> providing vital information to the local masses. Also, don't worry
> about how the stations disseminate the info to the masses, there could
> be several good ideas.
>
> Once we have "the killer application" then we can put in the network
> that makes the most sense for it, and we have some time to add fun
> apps and other useful ham stuff as well. Actually, the overall mission
> might start with the ham application that will draw many into the
> network, then focus on the public service app and process.
>
> I think that until the applications of true interest become desirable
> to many people then we could flounder around for many more years with
> a hodgepodge of technology and not too much progress.
>
> Disclaimer - I'm totally impressed with what's been done to date!!!
> Those folks are doing it for the love of the technology,
> accomplishment and public service.
>
> 73, Patrick
> KM5L
>
> ---In DAWG-HSMM@yahoogroups.com, <qrq_cw@...> wrote :
>
> On Fri, 7/15/16, Dallas KD4HNX mylastname@... <mailto:mylastname@...>
> [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com
> <mailto:DAWG-HSMM@yahoogroups.com>> wrote:
>
>
> > If the backbone is a secure network that commercial
> > "encrypted" traffic could be sent over then the
> > ARES served agencies like hospitals, police, fire, ems, red
> > cross etc could use it to hop over internet outage...
> > All the MESH traffic gets a free ride on the backbone...
>
> OK, now take it a step further - what value is mesh adding to this
> solution? If all you're doing is providing a point to point link over
> commercial hardware, I don't see what adding a nonencrypted end link
> over RF is adding. If wireless is needed at the endpoint, connect up a
> wifi router and be done with it. Taking it another step further, what
> do they need hams for? This is a commercial solution. There are people
> that make a living setting up, maintaining and administering
> commercial data links like this with hardware a lot better than
> ubiquiti. So I see little point to the ham ISP gig unless all you want
> to do is spend your time and money providing a free service that
> anyone else would have to pay for.
>
> Mark K5LXP

> Albuquerque, NM
>
>
>

3145. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-17 13:31:19 UTC
From: patrick@...
Topic: 3095 Message: 3145

Dallas,

Thanks for the info, especially on the apps you've mentioned. Question on WebEOC. I watched a few demos and feel I have a cursory understanding of it.

I looked on the web site and there's three types of WebEOC categories:
1 - WebEOC core (Hosted only)
2 - WebEOC Professional (hosted or on-premise)
3 - WebEOC Enterprise (hosted or on-premise)

Just wanted to avoid the pros and cons of this for now, but let's assume we want to provide a solution to access WebEOC via our DFW HSMM infrastructure, but let's agree for now we want it accessible without the internet - or assume the internet is not accessible in the affected area.

Do you know if this app is used by Dallas county and other local governments around here and if so, is it hosted or on-premise?

Are any of our local HSMM infrastructures providing access to any WebEOC? (using HSMM term as a generic term right now, meaning any BBHN, ARENT, whatever).

Thanks in advance,
Patrick - KM5L

---In DAWG-HSMM@yahoogroups.com, <w2ttt@...> wrote :

Hope the interviews went well!

Sent from AT&T Mail on Android https://att.overview.mail.yahoo.com/mobile/?.src=Android
From:"Dallas KD4HNX mylastname@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Fri, Jul 15, 2016 at 20:47
Subject:Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Sorry for the slow response... Job interviews trump MESH chatter via email...

MESH doesn't bring much to the table for a network if the hospitals and public safety folks wanted such a wifi network they could go out and buy it... It would cost them millions for a 30 site, muliti-county network while we could do it on the cheap for much less...

If they build it we don't get to play on it... .Just ask the cop or fireman to let you talk on one of their radios for the afternoon... As tax payers we bought it but we don't get to play... If they build it we don't get to do all the RF plots and testing or figuring out how to make it work... We learn ZIP...

If we build it we get to play and just in case the world almost comes to an end we get to put on our ARES hats, shirts, vest and save the day and give them a small part of the internet for such things as:

WebEOC...
EM Tracker...
VoIP phones...
Conferance calls...
Video conferences
eMail...
FTP file transfer...

We get to do all of the above things plus
We as hams get to link repeaters...
Supply the Internet to APRS igates...

:

73 Dallas, KD4HNX
Whatever you do, don’t fall victim to “paralysis by
analysis.” Go ahead and buy/build one and start
tinkering with it. This is a learn by doing hobby.

No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!

From: "Mark Brueggemann qrq_cw@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Friday, July 15, 2016 2:05 PM
Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

On Fri, 7/15/16, Dallas KD4HNX mylastname@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com>
wrote:

> If the backbone is a secure network that commercial
> "encrypted" traffic could be sent over then the
> ARES served agencies like hospitals, police, fire, ems, red
> cross etc could use it to hop over internet outage...
> All the MESH traffic gets a free ride on the backbone...

OK, now take it a step further - what value is mesh adding to this solution? If all you're doing is providing a point to point link over commercial hardware, I don't see what adding a nonencrypted end link over RF is adding. If wireless is needed at the endpoint, connect up a wifi router and be done with it. Taking it another step further, what do they need hams for? This is a commercial solution. There are people that make a living setting up, maintaining and administering commercial data links like this with hardware a lot better than ubiquiti. So I see little point to the ham ISP gig unless all you want to do is spend your time and money providing a free service that anyone else would have to pay for.

Mark K5LXP
Albuquerque, NM

3146. HSMM - Strawman proposal

Yahoo group: DAWG-HSMM
Date: 2016-07-17 19:00:04 UTC
From: patrick@...
Topic: 3146 Message: 3146

Stemming from a fruitful discussion came an invitation from AREDN - I think we all are in general agreement we need to standardize on the "killer application" that will propel the interest and thus expansion of HSMM much more quickly and effectively.

Thanks to these folks for getting the party started:
•From AREDN: K6AH, AE6XE, KM5L, KA5TYW, N8NQH,
•From DAWG-HSMM: AE5IB, KD4HNX, WB6TAE, WA7NWP, K5LXP, W2TTT

I've uploaded a powerpoint requesting your feedback. This is a very early draft, call it a strawman. We'll give it a few days and then start sending it out more broadly.

Here's the powerpoint:
https://www.dropbox.com/sh/0up9dj1sgnglq34/AACeEqdRyd0FBEJuYzcKIme7a?dl=0
https://www.dropbox.com/sh/0up9dj1sgnglq34/AACeEqdRyd0FBEJuYzcKIme7a?dl=0

In case you don't have powerpoint, here is an exported video:
https://youtu.be/8jSSSOx-IsU https://youtu.be/8jSSSOx-IsU

You can send your responses via email to me at patrick@RunThisProject.com
mailto:patrick@RunThisProject.com
Or, reply to this post.

Before spending too much more time I'd like to see what interest level this generates.

Thanks and 73,
Patrick KM5L

3147. Re: [DAWG-HSMM] HSMM - Strawman proposal

Yahoo group: DAWG-HSMM
Date: 2016-07-17 19:35:59 UTC
From: Thorsten von Eicken
Topic: 3146 Message: 3147

The proposal certainly makes sense, however, I'm wondering whether there is an alternative to emergency communications. Living in Santa Barbara and having been part of ARES for a couple of years, I have decided that there's no point in hams doing EMCOMM. We have had plenty of wildland fires threatening homes in the past years and not once have hams been approached in any way. I can point to a number of articles by hams across the country that feel the same way. I don't want to start an argument about this topic, I only want to motivate why I'm asking for an alternative.

In the spirit of being constructive, I want to mention a project that I'm starting to think about, which is environmental monitoring. This could be very localized weather (which is very important in fire situations here), but I'm really thinkg more about other things, such as pollution and pesticide drift. Some of this data may well be used by emergency responders because it may be something they don't do at all. They all have communications vans and satellite links, but they don't have tens or hundreds of monitoring probes in a wide area providing data. But I'm more interested in providing the data to environmental and climate monitoring users or researchers. E.g., how many non-profits or university research projects have the capability to place many probes out over a wider area in a cost-effective manner? I don't have a complete proposal around this because I'm just at the beginning of researching what has been done and what might be interesting. I do know that there are very interesting radio issues and lots of open space for experimentation. For example, one might come up with a Wifi backbone with local LoRA radios going to tiny & cheap battery operated stations.

I have operated a 26mi Wifi link out to an off-shore island to bring back images that have been used by a university research team and I have to admit that that has been more rewarding than the time I've spent on emcomm. But obviously that is a personal opinion and also doesn't match with the purpose of AREDN.

Regards & thanks for all the work on HSMM and AREDN!
Thorsten - N6TVE

On 7/17/2016 12:00 PM, patrick@... [DAWG-HSMM] wrote:
>
> Stemming from a fruitful discussion came an invitation from AREDN - I
> think we all are in general agreement we need to standardize on the
> "killer application" that will propel the interest and thus expansion
> of HSMM much more quickly and effectively.
>

3148. Re: [DAWG-HSMM] HSMM - Strawman proposal

Yahoo group: DAWG-HSMM
Date: 2016-07-17 20:52:51 UTC
From: Shawn Stoddard
Topic: 3146 Message: 3148

I am very interested! My local ACS group has been having this very discussion recently. The results of our discussions are on a parallel track. The network needs some specific goals and with these goals comes clarity. I would like to get more involved.

On Sun, Jul 17, 2016, at 15:00, patrick@runthisproject.com [DAWG-HSMM] wrote:
>
>
> Stemming from a fruitful discussion came an invitation from AREDN - I
> think we all are in general agreement we need to standardize on the
> "killer application" that will propel the interest and thus expansion
> of HSMM much more quickly and effectively.
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> Thanks to these folks for getting the party started:
> •From AREDN: K6AH, AE6XE, KM5L, KA5TYW, N8NQH,
> •From DAWG-HSMM: AE5IB, KD4HNX, WB6TAE, WA7NWP, K5LXP, W2TTT
>
>
> I've uploaded a powerpoint requesting your feedback. This is a very
> early draft, call it a strawman. We'll give it a few days and then
> start sending it out more broadly.
>
> Here's the powerpoint:
> https://www.dropbox.com/sh/0up9dj1sgnglq34/AACeEqdRyd0FBEJuYzcKIme7a?dl=0
>
> In case you don't have powerpoint, here is an exported video:
> https://youtu.be/8jSSSOx-IsU
>
>
> You can send your responses via email to me at
> patrick@... Or, reply to this post.
>
> Before spending too much more time I'd like to see what interest level
> this generates.
>
> Thanks and 73, Patrick KM5L
>
>
>

Links:

1. https://groups.yahoo.com/neo/groups/DAWG-HSMM/conversations/messages/3146;_ylc=X3oDMTJx
ajFjdXJtBF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMzMTQ2BHNlYw
NmdHIEc2xrA3JwbHkEc3RpbWUDMTQ2ODc4MjAwNQ--?act=reply&messageNum=3146
2. mailto:patrick@...?subject=Re%3A%20HSMM%20-

%20Strawman%20proposal
3. mailto:DAWG-HSMM@yahoogroups.com?subject=Re%3A%20HSMM%20-
%20Strawman%20proposal
4. https://groups.yahoo.com/neo/groups/DAWG-HSMM/conversations/newtopic;_ylc=X3oDMTJmM3B2b
Gd1BF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNudHBjBHN
0aW1lAzE0Njg3ODIwMDU-
5. https://groups.yahoo.com/neo/groups/DAWG-HSMM/conversations/topics/3146;_ylc=X3oDMTM1a2
g4bW5rBF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMzMTQ2BHNlYwNm
dHIEc2xrA3Z0cGMEc3RpbWUDMTQ2ODc4MjAwNQR0cGNJZAMzMTQ2
6. https://yho.com/1wwmgg
7. https://groups.yahoo.com/neo/groups/DAWG-HSMM/info;_ylc=X3oDMTJmYms1Z2JuBF9TAzk3MzU5NzE
0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzE0Njg3ODIwM
DU-
8. https://info.yahoo.com/privacy/us/yahoo/groups/details.html
9. mailto:DAWG-HSMM-unsubscribe@yahoogroups.com?subject=Unsubscribe
10. https://info.yahoo.com/legal/us/yahoo/utos/terms/

3149. Re: [DAWG-HSMM] HSMM - Strawman proposal

Yahoo group: DAWG-HSMM
Date: 2016-07-18 01:32:05 UTC
From: Patrick Bouldin
Topic: 3146 Message: 3149

Hi Shawn,

Thanks and I'm glad to hear you'll be joining us. Couple of things. First, could you go ahead and review the powerpoint, or video (same content) and provide some responses on the requested areas? Better yet, could you get a set of summary answers from the group you've mentioned that are discussing similar areas?

Also, this is cross-posted on ARDN as well, and in a few short weeks we'll have an official "starting point" - we need a little time with folks like you commenting and ushering out of a strawman proposal into a credible first pass.

Thanks again and 73!
Patrick KM5L

On Sun, Jul 17, 2016 at 3:52 PM, Shawn Stoddard stoddard@...
[DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

>
>
> I am very interested! My local ACS group has been having this very
> discussion recently. The results of our discussions are on a parallel
> track. The network needs some specific goals and with these goals comes
> clarity. I would like to get more involved.
>
>
> On Sun, Jul 17, 2016, at 15:00, patrick@... [DAWG-HSMM]
> wrote:
>
>
>
>
> Stemming from a fruitful discussion came an invitation from AREDN - I
> think we all are in general agreement we need to standardize on the "killer
> application" that will propel the interest and thus expansion of HSMM much
> more quickly and effectively.
>
>
> Thanks to these folks for getting the party started:
> •From AREDN: K6AH, AE6XE, KM5L, KA5TYW, N8NQH,
> •From DAWG-HSMM: AE5IB, KD4HNX, WB6TAE, WA7NWP, K5LXP, W2TTT
>
>
>
> I've uploaded a powerpoint requesting your feedback. This is a very early

> draft, call it a strawman. We'll give it a few days and then start sending
> it out more broadly.
>
> Here's the powerpoint:
> https://www.dropbox.com/sh/0up9dj1sgnglq34/AACeEqdRyd0FBEJuYzcKIme7a?dl=0
>
> In case you don't have powerpoint, here is an exported video:
> https://youtu.be/8jSSSOx-IsU
>
>
> You can send your responses via email to me at patrick@...
> Or, reply to this post.
>
> Before spending too much more time I'd like to see what interest level
> this generates.
>
> Thanks and 73,
> Patrick KM5L
>
>
>
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>
>
>
>

3150. Re: [DAWG-HSMM] HSMM - Strawman proposal

Yahoo group: DAWG-HSMM
Date: 2016-07-18 01:56:05 UTC
From: Shawn Stoddard
Topic: 3146 Message: 3150

I'll work on getting my thoughts together and start work on getting
feedback from my broader group.

On Sun, Jul 17, 2016, at 21:32, Patrick Bouldin patrick@... [DAWG-HSMM] wrote:
>
>
> Hi Shawn,
>
> Thanks and I'm glad to hear you'll be joining us. Couple of things.
> First, could you go ahead and review the powerpoint, or video (same
> content) and provide some responses on the requested areas? Better
> yet, could you get a set of summary answers from the group you've
> mentioned that are discussing similar areas?
>
> Also, this is cross-posted on ARDN as well, and in a few short weeks
> we'll have an official "starting point" - we need a little time with
> folks like you commenting and ushering out of a strawman proposal into
> a credible first pass.
>
> Thanks again and 73!
> Patrick KM5L
>
> On Sun, Jul 17, 2016 at 3:52 PM, Shawn Stoddard stoddard@... [DAWG-
> HSMM] <DAWG-HSMM@yahoogroups.com> wrote:
>> __
>>
>> __
>> I am very interested! My local ACS group has been having this very
>> discussion recently. The results of our discussions are on a parallel
>> track. The network needs some specific goals and with these goals
>> comes clarity. I would like to get more involved.
>>
>>
>> On Sun, Jul 17, 2016, at 15:00, patrick@runthisproject.com [DAWG-
>> HSMM] wrote:
>>>
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>>> Stemming from a fruitful discussion came an invitation from AREDN -
>>> I think we all are in general agreement we need to standardize on
>>> the "killer application" that will propel the interest and thus
>>> expansion of HSMM much more quickly and effectively.
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>>> •From DAWG-HSMM: AE5IB, KD4HNX, WB6TAE, WA7NWP, K5LXP, W2TTT

>>>
>>>
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>>> early draft, call it a strawman. We'll give it a few days and then
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1. https://groups.yahoo.com/neo/groups/DAWG-HSMM/conversations/messages/3149;_ylc=X3oDMTJxMDVyZHVhBF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMzMTQ5BHNlYwNmdHIEc2xrA3JwbHkEc3RpbWUDMTQ2ODgwNTUyNw--?act=reply&messageNum=3149
2. mailto:patrick@...?subject=Re%3A%20%5BDAWG-HSMM%5D%20HSMM%20-%20Strawman%20proposal
3. mailto:DAWG-HSMM@yahoogroups.com?subject=Re%3A%20%5BDAWG-HSMM%5D%20HSMM%20-%20Strawman%20proposal
4. https://groups.yahoo.com/neo/groups/DAWG-HSMM/conversations/newtopic;_ylc=X3oDMTJmZHJkMDVhBF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDZnRyBHNsawNudHBjBHN0aW1lAzE0Njg4MDU1Mjc-
5. https://groups.yahoo.com/neo/groups/DAWG-HSMM/conversations/topics/3146;_ylc=X3oDMTM1OGJrZW1lBF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRtc2dJZAMzMTQ5BHNlYwNmdHIEc2xrA3Z0cGMEc3RpbWUDMTQ2ODgwNTUyNwR0cGNJZAMzMTQ2
6. https://yho.com/1wwmgg
7. https://groups.yahoo.com/neo/groups/DAWG-HSMM/info;_ylc=X3oDMTJmMzZmYzFuBF9TAzk3MzU5NzE0BGdycElkAzEyMjY0MzIwBGdycHNwSWQDMTcwNTY0NDA4OQRzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzE0Njg4MDU1Mjc-
8. https://info.yahoo.com/privacy/us/yahoo/groups/details.html
9. mailto:DAWG-HSMM-unsubscribe@yahoogroups.com?subject=Unsubscribe

10. https://info.yahoo.com/legal/us/yahoo/utos/terms/

3151. Re: [DAWG-HSMM] HSMM - Strawman proposal

Yahoo group: DAWG-HSMM
Date: 2016-07-18 02:17:24 UTC
From: James Gordon Beattie, Jr.
Topic: 3146 Message: 3151

Patrick,

Thanks for organizing the discussion into a pptx.

After a quick read here are some initial comments:

1. Power from a vehicle DC or AC as appropriate. Keep requirements <200 or 400W if AC to match typical in vehicle inverters.

2. Consider different operational profiles. CP, Shelter,

3. Consider end user equipment support requirements.

73,

Gordon Beattie, W2TTT

201.314.6964

Sent from AT&T Mail on Android

From:"patrick@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Sun, Jul 17, 2016 at 15:00
Subject:[DAWG-HSMM] HSMM - Strawman proposal

Stemming from a fruitful discussion came an invitation from AREDN - I think we all are in general agreement we need to standardize on the "killer application" that will propel the interest and thus expansion of HSMM much more quickly and effectively.

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•From DAWG-HSMM: AE5IB, KD4HNX, WB6TAE, WA7NWP, K5LXP, W2TTT

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powerpoint: https://www.dropbox.com/sh/0up9dj1sgnglq34/AACeEqdRyd0FBEJuYzcKIme7a?dl=0

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You can send your responses via email to me at patrick@...
Or, reply to this post.

Before spending too much more time I'd like to see what interest level this generates.

Thanks and 73,
Patrick KM5L

3152. Re: [DAWG-HSMM] HSMM - Strawman proposal

Yahoo group: DAWG-HSMM
Date: 2016-07-18 02:26:22 UTC
From: Kipton Moravec
Topic: 3146 Message: 3152

The "Killer Application" in my opinion is the PI camera that Andrew showed at the Raspberry Pi class, Saturday. He was taking pictures every second, and downloading them to a server on the network, that created a time-lapse video of the weather.

Here is what I like about it.
1. It is something not offered anywhere else.
2. Current pictures and the time-lapse pictures may be of interest to each city's EOC.
3. If the data from the network is of interest to the city, we are more likely to get access to city owned/controlled high places.
4. It is cheap. And it provides more opportunities for high altitude places.

Severe storms are what we get in North Texas. We do not get earthquakes (that cause damage), forest fires, hurricanes, wide spread flooding, or tsunamis.

Kip
AE5IB

On 07/17/2016 02:00 PM, patrick@... [DAWG-HSMM] wrote:
>
>
> Stemming from a fruitful discussion came an invitation from AREDN - I
> think we all are in general agreement we need to standardize on the
> "killer application" that will propel the interest and thus expansion
> of HSMM much more quickly and effectively.
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> Thanks to these folks for getting the party started:
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> •From DAWG-HSMM: AE5IB, KD4HNX, WB6TAE, WA7NWP, K5LXP, W2TTT
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> In case you don't have powerpoint, here is an exported video:
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> this generates.
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> Thanks and 73,
> Patrick KM5L
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>
>
>

3153. Re: [DAWG-HSMM] HSMM - Strawman proposal

Yahoo group: DAWG-HSMM
Date: 2016-07-18 03:00:31 UTC
From: James Gordon Beattie, Jr.
Topic: 3146 Message: 3153

Kip,

We do that and streaming video as well.

Recording with date and time is important. Selective sampling could be used to forward every nth still to a control center with a detailed set or stream available on demand.

How about VOIP and ROIP for situations where radios don't work using Wi-Fi APs for access from a phone, tab look et or PC? Add in video conferencing or degrade to a chat server with or without file transfer?

73,

Gordon Beattie, W2TTT

201.314.6964

Sent from AT&T Mail on Android

From:"Kipton Moravec kip@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Sun, Jul 17, 2016 at 22:36
Subject:Re: [DAWG-HSMM] HSMM - Strawman proposal

The "Killer Application" in my opinion is the PI camera that Andrew showed at the Raspberry Pi class, Saturday. He was taking pictures every second, and downloading them to a server on the network, that created a time-lapse video of the weather.

Here is what I like about it.
1. It is something not offered anywhere else.
2. Current pictures and the time-lapse pictures may be of interest to each city's EOC.
3. If the data from the network is of interest to the city, we are more likely to get access to city owned/controlled high places.
4. It is cheap. And it provides more opportunities for high altitude places.

Severe storms are what we get in North Texas. We do not get earthquakes (that cause damage), forest fires, hurricanes, wide spread flooding, or tsunamis.

Kip
AE5IB

On 07/17/2016 02:00 PM, patrick@... [DAWG-HSMM] wrote:

Stemming from a fruitful discussion came an invitation from AREDN - I think we all are in general agreement we need to standardize on the "killer application" that will propel the interest and thus expansion of HSMM much more quickly and effectively.

Thanks to these folks for getting the party started:

•From AREDN: K6AH, AE6XE, KM5L, KA5TYW, N8NQH,

•From DAWG-HSMM: AE5IB, KD4HNX, WB6TAE, WA7NWP, K5LXP, W2TTT

I've uploaded a powerpoint requesting your feedback. This is a very early draft, call it a strawman. We'll give it a few days and then start sending it out more broadly.

Here's the
powerpoint: https://www.dropbox.com/sh/0up9dj1sgnglq34/AACeEqdRyd0FBEJuYzcKIme7a?dl=0

In case you don't have powerpoint, here is an exported video:
https://youtu.be/8jSSSOx-IsU

You can send your responses via email to me at patrick@...
Or, reply to this post.

Before spending too much more time I'd like to see what interest level this generates.

Thanks and 73,
Patrick KM5L

3154. Re: [DAWG-HSMM] Test

Yahoo group: DAWG-HSMM
Date: 2016-07-18 03:06:06 UTC
From: James Gordon Beattie, Jr.
Topic: 3146 Message: 3154

Test

Sent from AT&T Mail on Android

From:"'James Gordon Beattie, Jr.' w2ttt@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Sun, Jul 17, 2016 at 23:00
Subject:Re: [DAWG-HSMM] HSMM - Strawman proposal

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3155. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-18 03:24:19 UTC
From: Mark Brueggemann
Topic: 3095 Message: 3155

On Fri, 7/15/16, patrick@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

> It's not about the network per se, it "is" about the applications used on the
> network. ... So it has to start with the application, one that many will
> want to be involved!

I would concede to abandoning the mesh concept in favor of links to hosted services but has that even happened anywhere yet? It seems 1200bps packet enjoyed greater popularity than high speed wireless has at this point. Makes you wonder what it would take. I'm guessing that with the proliferation of wifi and cellular services there's just no allure of it by most hams to try and replicate any form of commercial service. Kinda like how autopatches are now extinct.

> Hams on the other hand can pick and choose what makes the most sense
> in public service.

Don't you think the served agency would be the one to decide, if even they have a choice? Seems a bit pretentious as hams to approach an agency and tell them this is the tool you're going to get, take it or leave it. Can pretty much guess how that's going to turn out.

I think the absence of any apps rising to the top after all this time is a bit telling itself. If you can't think of anything to do with a solution at hand, then what problem is it really solving?

My usual response to "what do you do with it (mesh)" at hamfests and field operations starts out with "whatever you want" followed by some practical examples of messaging, video, IP phones and remote rig control. In the emcomm realm there's Winlink and DRats. Beyond that, what do hams do with computers that isn't local like logging and applications? Frankly if these few are it that's not bad, it certainly can justify the effort to put a simple network together.

What any served agency is going to want is a data pipe. To plug their network into, connecting their servers to their clients. Between throughput, security and address translation problems it's just not possible with any ham solution to date. So the best you can hope for is to serve in a non-critical role with common applications. OK if to do "something/anything" is the goal. To that end I see deployable ad-hoc wireless to be more of an advantage than fixed site ham ISP links as the ad-hoc networks move to where the activity is. I think too much of the development to date has been centered around the ham ISP model with reluctance/denial about the practical and technical limitations that exist. A lot of wheel reinventing going on seeking the allure of being the critical link when all else fails. With any luck the development will continue beyond the egos.

Mark K5LXP
Albuquerque, NM

3156. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-18 03:26:12 UTC
From: Mark Brueggemann
Topic: 3095 Message: 3156

On Fri, 7/15/16, Dallas KD4HNX mylastname@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

> MESH doesn't bring much to the table for a network if the
> hospitals and public safety folks wanted such a wifi network
> they could go out and buy it... It would cost them
> millions for a 30 site, muliti-county network while we could
> do it on the cheap for much less...

Two ways to look at that. So you're saying hams can architect and deploy a 30 site multi county network...? Conversely, if hams could do such a thing "on the cheap" why couldn't anyone? Sure, there are hams that do this kind of thing for a living but I doubt there's many who would sign up for such an ambitious project.

> If they build it we don't get to do all the RF plots and testing or
> figuring out how to make it work

And do the maintenance, repair, and support going forward, on your time. Once the "learning fun" is over it becomes a job. It'd be one thing if it was an as-needed volunteer service but in the ham ISP model there's a delivered product. "They" are providing sites, and possibly funding hardware and are counting on this link to work "when all else fails". It takes a lot of effort to keep all that stuff going, effort that in any other realm is a paid job. The other side of that coin is what entity/agency would take seriously a volunteer group that has no guarantee of success and is just "testing and figuring out"?

> just in case the world almost comes to an end we get to put on our ARES hats,
> shirts, vest and save the day and give them a small part of the internet

I also think it's a bit gray (closer to black than white) to subordinate our license and allocation when other services are available. It's one thing to create an on-scene ad hoc network at a disaster, it's another to set up their backup links on our bands because hams will do it for cheap or free.

> We as hams get to link repeaters...Supply
> the Internet to APRS igates...

Yeah, HamWan does that. I know the Rocky Mountain group out of Denver is working on creating a microwave link all through the Rockies. That's actually a pretty worthwhile pursuit provided they don't overly restrict access. They're having a pretty hard time getting shots with enough margin even with commercial gear and big dishes here in NM, so we'll see what happens.

Mark K5LXP
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3157. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-18 03:37:19 UTC
From: Patrick Bouldin
Topic: 3095 Message: 3157

Hey Mark,

Wow I must have done a really bad job at laying this out! I agree with you on both counts. We need to ask the agencies for example how they conduct business and get the requirements - and then come up with the correct infrastructures.

As far as some of the items in the powerpoint, this was a strawman proposal. It can completely change - a strawman is a conversation starter, that's all. Take a look at the questions, we need your input on those - and you'll see that we are actually asking for recommendations on the assumptions.

I have some work to do on the powerpoint!!!

Thanks and 73,
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On Sun, Jul 17, 2016 at 10:24 PM, Mark Brueggemann qrq_cw@...
[DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

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3158. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-18 04:09:25 UTC
From: Patrick Bouldin
Topic: 3095 Message: 3158

Mark, I actually very much like and appreciate these points. I myself was not really thinking about an "inked" agreement that locked the amateur communities into providing services, almost contractually and guaranteeing work on a day by day basis. But your point is excellent, because if we're not careful that could inadvertently happen.

However, I suspect that an interesting answer would come from the FCC, or some typical county gov't EOC to the following question: "do you feel ARES is *obligated *to provide the services they claim they can (and state as justification for allocation)?" While it's true we WANT to be very helpful we are still a volunteer force and can only do what we can when we're equipped and when we can deploy - but an excellent point, are we ready to commit to be "primary" in certain instances? If we gather requirements and say we will provide services, and then that entity doesn't budget for it themselves then that's a bad thing.

My personal intent has always been tactical / temporary / organized.

So as we generate the requirements we need to be sure and cover this topic very clearly. It could be some in the community actually do want to commit and perform recurring operational, day to day duties. It may also be the case that our solution (to the requirements) is operational deployment to a disaster with agreed upon services - and once primary services are enabled we're out - we did our job.

In the end, I'm absolutely certain we have huge potential and can deliver on realistic goals - but wise concerns brought up here and we'll carry them forward.

Thanks and keep it going!
Patrick KM5L

On Sun, Jul 17, 2016 at 10:26 PM, Mark Brueggemann qrq_cw@...
[DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

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3159. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-18 04:39:33 UTC
From: kevin asato
Topic: 3095 Message: 3159

Hmm. Sounds like Job#1 - Find out how your served agencies intend to use the links and what type of bandwidths are required. Then see how you can best support it.

From a professional point of view (I work for a multinational company supplying equipment and installation services), I have been working with multiple police and fire agencies in deploying voice, video, and data transports with a minimum of 1Gbps using fiber (leased, including dark, and city-owned) and a minimum of 155Mbps over licensed microwave hops. RoIP (Radio over IP) is the obvious application but real-time, full motion video is also being sent over the links from multiple traffic cams as well as mapping and architectural data. E&M circuits for analog LMR, commercial internet access as well as analog and IP based PBXs kind of round out the top applications I have run into. SCADA is near the bottom of the list but traffic light controllers work hand in hand with traffic cams. Commercial internet access can be anything from accessing weather data for firefighting to ordering take-out to keep the "troops" happy. The systems as designed also have to support use of VPN tunneling to remote sites and users. Currently, the bandwidths are not fully utilized but can (and will) be in case of emergency.

So going back to the top, you need to determine what your served agencies need and you are expected to provide in terms of bandwidth, interfaces, and applications (and serving coffee is an application). If the equipment is portable, it is advisable to have several locations pre-surveyed and pre-provisioned for the proper power, ground, and interconnection facilities (to equipment and to antenna) to reduce set up time. During the emergency call out, having the equipment ready to use keeps the group from looking like the Keystone Kops in trying to establish connectivity and wasting time. We are amateurs in that we are not paid for our public service. We do need to present a professional appearance in that we know what we are doing to earn and keep our technical credibility.

Sorry for sounding harsh and discouraging but this is the reality that I face on a daily basis. I enjoy the organic nature of mesh nodes but it really boils down to what the user needs and how best we can be of assistance to them. For me, I'm on permanent call out through my company to work with the various customers (telco, wireless, LMR) that I support to offer my services in assisting with service restoration.

73,
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kc6pob

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3160. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-18 05:16:58 UTC
From: Patrick Bouldin
Topic: 3095 Message: 3160

Kevin, I didn't think you were discouraging at all, it's a perfect summation.

I do have a question however. I took note of what you do for a living. If you were an amateur trying to establish amateur mesh connectivity where it hasn't before - and there were a couple of large commercial buildings in the area, already with a lot of WISP and other services on the roof, how would you go about approaching the building owner or leasing agent for FREE access. Or if necessary, how would you try to minimize cost?

Thanks and 73,
Patrick KM5L

On Sun, Jul 17, 2016 at 11:39 PM, kevin asato kc6pob@yahoo.com [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

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3161. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-18 09:10:02 UTC
From: Dallas KD4HNX
Topic: 3095 Message: 3161

Here in Austin the state and the city/county run WebEOC on their own servers... Two different sites... I would assume the state is running theirs from the SOC in Austin... I know very little about that system first hand... During exercises or after action reviews I've sometimes see screen shots... Since WebEOC is a web based tool and you have different folks running each site some of the screens you would expect to be the same are different and that seems to be the topic at every After Action Review... Even it the data is the same the layout is different...

CAPCOG runs WebEOC for 10 counties (Bastrop, Blanco, Burnet, Caldwell, Fayette, Hays, Lee, Llano, Travis, and Williamson Counties) and I assume each COG does the same... I get some exposure to this system because the hospitals in the CATRAC region use it to report hospital status via WebEOC... CATRAC includes all of the counties in the CAPGOG region plus San Saba county... So beside the City/County EOCs feeding info into WebEOC they have 30+ hospitals, folks from Public Health and others...
Currently WebEOC is housed locally on servers but is expected to move to the cloud... That could be a good thing since you don't have to worry about a local flood, fire, earthquake, volcano, etc to take out the local server...

Any PC/laptop anywhere that has access to the internet can be used to login as long as the person has the proper user name and password... All data is encrypted through a https website...

We have Amateur Radio in most of the hospitals, some county EOCs, and a few Police and Fire stations... So we already have our foot in the door to gain roof top access... I know of 3 hospitals that have repeaters and one that has active HSMM nodes on the roof... In fact it is used to link the Georgtown and Taylor repeaters 24/7...
While I'm typing I just want to add:
Since most of the hospitals have web based email, if we had a backbone that would allow an https connection the EOC staff would have access to WebEOC and email...
The goal/plan is not to build them an everyday wifi network... It's just their as a backup should they loose their Internet connection... We would still have to come in and help get them on it I'm sure... What we get is access to Tall Structures with backup power...
I just thought of this...
CATRAC is part of TSA-7 which is headquarters is in Temple out of the HOTRAC... I know they use WebEOC and it's on a different set of servers...

Here is a map showing all of the TSA and RAC regions:http://catrac.org/documents/TSARegionMap.pdf

73 Dallas, KD4HNX
Whatever you do, don’t fall victim to “paralysis by analysis.” Go ahead and buy/build one and start tinkering with it. This is a learn by doing hobby.

No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!

From: "patrick@runthisproject.com [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Sunday, July 17, 2016 8:31 AM
Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Dallas,
Thanks for the info, especially on the apps you've mentioned. Question on WebEOC. I watched a few demos and feel I have a cursory understanding of it.
I looked on the web site and there's three types of WebEOC categories: 1 - WebEOC core (Hosted only)2 - WebEOC Professional (hosted or on-premise)3 - WebEOC Enterprise (hosted or on-premise)
Just wanted to avoid the pros and cons of this for now, but let's assume we want to provide a solution to access WebEOC via our DFW HSMM infrastructure, but let's agree for now we want it accessible without the internet - or assume the internet is not accessible in the affected area.
Do you know if this app is used by Dallas county and other local governments around here and if so, is it hosted or on-premise?
Are any of our local HSMM infrastructures providing access to any WebEOC? (using HSMM term as a generic term right now, meaning any BBHN, ARENT, whatever).
Thanks in advance,Patrick - KM5L

---In DAWG-HSMM@yahoogroups.com, <w2ttt@...> wrote :

| Hope the interviews went well!

Sent from AT&T Mail on Android
| From:"Dallas KD4HNX mylastname@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Fri, Jul 15, 2016 at 20:47
Subject:Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Sorry for the slow response... Job interviews trump MESH chatter via email...
MESH doesn't bring much to the table for a network if the hospitals and public safety folks wanted such a wifi network they could go out and buy it... It would cost them millions for a 30 site, muliti-county network while we could do it on the cheap for much less...

If they build it we don't get to play on it... .Just ask the cop or fireman to let you talk on one of their radios for the afternoon... As tax payers we bought it but we don't get to play... If they build it we don't get to do all the RF plots and testing or figuring out how to make it work... We learn ZIP...
If we build it we get to play and just in case the world almost comes to an end we get to put on our ARES hats, shirts, vest and save the day and give them a small part ofthe internet for such things as:
WebEOC...EM Tracker...VoIP phones...Conferance calls...Video conferenceseMail...FTP file transfer...

We get to do all of the above things plusWe as hams get to link repeaters...Supply the Internet to APRS igates...
:

73 Dallas, KD4HNX
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A Soldier, Sailor, Marine, or Airman did!

From: "Mark Brueggemann qrq_cw@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Friday, July 15, 2016 2:05 PM
Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

On Fri, 7/15/16, Dallas KD4HNX mylastname@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

> If the backbone is a secure network that commercial
> "encrypted" traffic could be sent over then the
> ARES served agencies like hospitals, police, fire, ems, red
> cross etc could use it to hop over internet outage...
> All the MESH traffic gets a free ride on the backbone...

OK, now take it a step further - what value is mesh adding to this solution? If all you're doing is providing a point to point link over commercial hardware, I don't see what adding a nonencrypted end link over RF is adding. If wireless is needed at the endpoint, connect up a wifi router and be done with it. Taking it another step further, what do they need hams for? This is a commercial solution. There are people that make a living setting up, maintaining and administering commercial data links like this with hardware a lot better than ubiquiti. So I see little point to the ham ISP gig unless all you want to do is spend your time and money providing a free service that anyone else would have to pay for.

Mark K5LXP
Albuquerque, NM

|

|

3162. Re: [DAWG-HSMM] Test

Yahoo group: DAWG-HSMM
Date: 2016-07-18 09:23:07 UTC
From: Dallas KD4HNX
Topic: 3146 Message: 3162

To all,I'm getting 2 and sometimes 3 of the same email... Please check the To: and make sure DAWG is only in there once...

73 Dallas, KD4HNX
Whatever you do, don’t fall victim to “paralysis by analysis.” Go ahead and buy/build one and start tinkering with it. This is a learn by doing hobby.

No politician or scholar assured your freedoms.
A Soldier, Sailor, Marine, or Airman did!

From: "'James Gordon Beattie, Jr.' w2ttt@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@yahoogroups.com>; "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@yahoogroups.com>; "DAWG-HSMM@yahoogroups.com" <DAWG-HSMM@yahoogroups.com>; N2MH Mark Herson <n2mh@...>; Randolph Smith <randolph@...>; Michael Hoeft <hoeft.mike@...>; Schlesinger Fred H. <fred@...>
Cc: W2TTT J. Gordon Beattie <w2ttt@...>
Sent: Sunday, July 17, 2016 10:06 PM
Subject: Re: [DAWG-HSMM] Test

| Test

Sent from AT&T Mail on Android
| From:"'James Gordon Beattie, Jr.' w2ttt@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Sun, Jul 17, 2016 at 23:00
Subject:Re: [DAWG-HSMM] HSMM - Strawman proposal

| Kip,We do that and streaming video as well.Recording with date and time is important. Selective sampling could be used to forward every nth still to a control center with a detailed set or stream available on demand.
How about VOIP and ROIP for situations where radios don't work using Wi-Fi APs for access from a phone, tab look et or PC? Add in video conferencing or degrade to a chat server with or without file transfer?
73,Gordon Beattie, W2TTT201.314.6964

Sent from AT&T Mail on Android
| From:"Kipton Moravec kip@... [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
Date:Sun, Jul 17, 2016 at 22:36
Subject:Re: [DAWG-HSMM] HSMM - Strawman proposal

  The "Killer Application" in my opinion is the PI camera that Andrew showed at the Raspberry Pi class, Saturday. He was taking pictures every second, and downloading them to a server on the network, that created a time-lapse video of the weather.

Here is what I like about it.
1. It is something not offered anywhere else.
2. Current pictures and the time-lapse pictures may be of interest to each city's EOC.

3. If the data from the network is of interest to the city, we are more likely to get access to city owned/controlled high places.
4. It is cheap. And it provides more opportunities for high altitude places.

Severe storms are what we get in North Texas. We do not get earthquakes (that cause damage), forest fires, hurricanes, wide spread flooding, or tsunamis.

Kip
AE5IB

On 07/17/2016 02:00 PM, patrick@... [DAWG-HSMM] wrote:

Stemming from a fruitful discussion came an invitation from AREDN - I think we all are in general agreement we need to standardize on the "killer application" that will propel the interest and thus expansion of HSMM much more quickly and effectively.
Thanks to these folks for getting the party started: •From AREDN: K6AH, AE6XE, KM5L, KA5TYW, N8NQH, •From DAWG-HSMM: AE5IB, KD4HNX, WB6TAE, WA7NWP, K5LXP, W2TTT
I've uploaded a powerpoint requesting your feedback. This is a very early draft, call it a strawman. We'll give it a few days and then start sending it out more broadly.

Here's the
powerpoint: https://www.dropbox.com/sh/0up9dj1sgnglq34/AACeEqdRyd0FBEJuYzcKIme7a?dl=0

In case you don't have powerpoint, here is an exported video:
https://youtu.be/8jSSSOx-IsU

You can send your responses via email to me at patrick@...
Or, reply to this post.

Before spending too much more time I'd like to see what interest level this generates.

Thanks and 73,
Patrick KM5L

|

|

|

|

3163. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-18 09:56:10 UTC
From: Dallas KD4HNX
Topic: 3095 Message: 3163

See my comments below in RED 73 Dallas, KD4HNX
Whatever you do, don’t fall victim to “paralysis by analysis.” Go ahead and buy/build one and start tinkering with it. This is a learn by doing hobby.

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A Soldier, Sailor, Marine, or Airman did!

From: "Mark Brueggemann qrq_cw@yahoo.com [DAWG-HSMM]" <DAWG-HSMM@yahoogroups.com>
To: DAWG-HSMM@yahoogroups.com
Sent: Sunday, July 17, 2016 10:26 PM
Subject: Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

On Fri, 7/15/16, Dallas KD4HNX mylastname@yahoo.com [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

> MESH doesn't bring much to the table for a network if the
> hospitals and public safety folks wanted such a wifi network
> they could go out and buy it... It would cost them
> millions for a 30 site, muliti-county network while we could
> do it on the cheap for much less...

Two ways to look at that. So you're saying hams can architect and deploy a 30 site multi county network...? Conversely, if hams could do such a thing "on the cheap" why couldn't anyone? Sure, there are hams that do this kind of thing for a living but I doubt there's many who would sign up for such an ambitious project.Over a decade ago we installed 2 dual band radios and antennas in 9 hospitals... A few years later we expanded it to 21 others... We keep adding a new hospitals are built... We use Winlink to send email at 1200 baud half duplex so the through put is like 600 baud... Depending on the ARES group some sites get tested more often than others... Here in Williamson Co we have 20 or so that test the Winlink some 500 times a week with test messages... We also do site visits every 3rd Friday at 4:00 PM... 12-20 volunteers... We participate in the hospital's annual Full Scale Exercise (All Hazards)... We spent a few thousand dollars on WiFI gear to link two new Fusion repeaters... To some of us building and keeping it running is just part of the hobby... Kinda like buying 400-500' of 7/8" hard line for that repeater on that TV tower...
The beauty of doing it on a hospital is you push the button on the elevator and it takes you to the penthouse... You might have to walk up 1-2 flights of stairs or climb a short ladder to gain access to a roof... ZERO tower climbing...

> If they build it we don't get to do all the RF plots and testing or
> figuring out how to make it work

And do the maintenance, repair, and support going forward, on your time. Once the "learning fun" is over it becomes a job. It'd be one thing if it was an as-needed volunteer service but in the ham ISP model there's a delivered product. "They" are providing sites, and possibly funding hardware and are counting on this link to work "when

all else fails". It takes a lot of effort to keep all that stuff going, effort that in any other realm is a paid job. The other side of that coin is what entity/agency would take seriously a volunteer group that has no guarantee of success and is just "testing and figuring out"?
Yes, the testing takes about an hour a month... We have 6 hospitals, 1 police station, 1 fire station, 1 county EOC with ham gear... We average 50 or so at every ARES meeting... Replacement gear/parts are supplied by the RAC... To us it's just another part of the hobby...

> just in case the world almost comes to an end we get to put on our ARES hats,
> shirts, vest and save the day and give them a small part of the internet

I also think it's a bit gray (closer to black than white) to subordinate our license and allocation when other services are available. It's one thing to create an on-scene ad hoc network at a disaster, it's another to set up their backup links on our bands because hams will do it for cheap or free.
But if they pay to have some commercial WiFi company install it we don't get to play with it... The goal is to build US a MESH network so we can play with cameras, raspberry PIs, WiFi, etc...If the backbone is on the Part 15 bands we are not using our licenses for the backbone... The mesh gear is connected to the backbone via Ethernet...

> We as hams get to link repeaters...Supply
> the Internet to APRS igates...

Yeah, HamWan does that. I know the Rocky Mountain group out of Denver is working on creating a microwave link all through the Rockies. That's actually a pretty worthwhile pursuit provided they don't overly restrict access. They're having a pretty hard time getting shots with enough margin even with commercial gear and big dishes here in NM, so we'll see what happens.

Mark K5LXP
Albuquerque, NM

3164. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-18 14:53:04 UTC
From: kevin asato
Topic: 3095 Message: 3164

Patrick,
that is something I do not have an answer for.

Many of the LMR projects I get involved with are sited in government owned buildings so there is probably an internal chargeback system for cost purposes. WiFi equipment will consume almost no power compared to the systems I have worked with. At the commercial repeater/tower sites in use, there are already pre-existing leases in place in which I install equipment, With the newer LTE services being explored, I see an increase in recurring costs for more repeater sites to host the "Small Cell" type equipment in support of Public Safety communications. This also includes the interiors of commercial structures as radio is not known to universally fill all the nooks and crannies of a building.

My recommendation is to have a sponsor in your served agency who would be willing to help you obtain space and right of way to have the equipment sited and cables run into the shelter, up and down the risers, and up the antenna mast. This will save the cost of separately hiring a tower crew at least to mount the antenna as many agencies are not covered for tower climbing activities (insurance, training, etc). I am also a fan of having all the active electronics (Out Door Unit - ODU) located down low, separate from the antenna so one does not have to climb towers for repair or replacement of the failed APs. Again, most of the agencies I have worked with do not have people certified to climb towers so keeping active components at a level where they can be readily accessed is a necessity to expedite repairs. This will result in having to deal with the coax losses but as long as your keep within the frequency limitations of your license, you can amplify the signal to make up for the losses.

73,
kevin
kc6pob

Kevin, I didn't think you
were discouraging at all, it's a perfect
summation.
I do have a
question however. I took note of what you do for a living.
If you were an amateur trying to establish amateur mesh
connectivity where it hasn't before - and there were a
couple of large commercial buildings in the area, already
with a lot of WISP and other services on the roof, how would
you go about approaching the building owner or leasing agent
for FREE access. Or if necessary, how would you try to
minimize cost?
Thanks
and 73,
Patrick KM5L

3165. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-19 04:15:09 UTC
From: Mark Brueggemann
Topic: 3095 Message: 3165

On Sun, 7/17/16, Patrick Bouldin patrick@... [DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

> We need to ask the agencies for example how they conduct
> business and get the requirements - and then come up with
> the correct infrastructures.

It's a non starter based on the hardware alone. You're proposing a network made of sole source consumer grade hardware, which as of today has a sole-source volunteer supported code base. Even if a network could be constructed with it, there is no guarantee there would be hardware or software support for it going forward. The AREDN team could take their marbles and go home just like they did to BBHN, and where would this effort be? Sure, it's open source but unless you have a backup development team, AREDN grinds to a halt. Or a bug shows up the AREDN team can't fix for one reason or another. Game over.

> As far as some of the items in the powerpoint, this was a strawman proposal.

I am firmly in the camp that amateur radio has no business doing emcomm, at least in this formal context. So I guess I don't have much more to say about it. My interest in HSMM is purely the "fun" side, as an accessory like a control link radio or operating aid. The suggestion of ham networks for education, research or other public role may have some merit, as encryption isn't required and the resource can be shared between the ham community and end user.

The emcomm solution to provide has already been solved commercially (and in spades), and those solutions will be fully regression tested, commissioned and not have the physical, operational and security issues a volunteer deployed system will have. I work for a company that makes these solutions and has been selling them since about 2007 to government. I have no problem with the idea hams could set up a network in a support role for some noncritical mission (parades, maybe shelter support) but when you start talking about creating applications and setting up a fixed network for an entity like an EOC, hams are way out of their league. Having worked for Motorola servicing public safety radio, E911 and microwave you have no idea just how backwards ham radio appears in comparison. One comment in the last thread was the millions it would cost to create a network. That's an intangible number out of hand but there's a reason commercial systems and networks cost so much - they're expensive to create with their bandwidth, redundancy, security and support. To think that can be replicated by some hardware off of amazon with some open source code running on it is a bit ridiculous. To provide anything less isn't going to garner much interest by anyone. The solution is to allow their existing systems to run, not pull the rug out and run someone else's compromised system. That's not so say there's not a killer app for ham high speed networking but I can guarantee it won't be in any public safety mission critical role. Since AREDN is being developed based on this premise I see a rude awakening coming when Conrad and company figure out it's not going anywhere, or when they see they're doing a full time job's worth of effort just to serve niche deployments.

Mark K5LXP
Albuquerque, NM

3166. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-19 04:39:23 UTC
From: Mark Brueggemann
Topic: 3095 Message: 3166

On Sun, 7/17/16, Patrick Bouldin patrick@... wrote:

> I myself was not really thinking about an "inked" agreement that locked
> the amateur communities into providing services, almost
> contractually and guaranteeing work on a day by day basis.

OK, but in the current emcomm climate there is no possibility of providing any service without an established relationship with an agency, proper training, certification, etc. The idea if showing up with an ethernet plug is no more futile than showing up at a disaster scene with an HT proclaiming you're there to help. It's pretty safe to assume any networking solution is going to be agreed upon in advance. It's just too complicated and dynamic to know what to create or what it needs to do on-demand.

> I suspect that an interesting answer would come from the FCC, or some typical
> county gov't EOC to the following question: "do you feel ARES is obligated to
> provide the services they claim they can

I think that implied level of service comes in the form of an MOU or specific relationship. If the agency has confidence hams can pull it off they can write it into their emergency plans.

> While it's true we WANT to be very helpful we are still a volunteer force and can only
> do what we can when we're equipped and when we can deploy

Which ain't much, and ain't often. Which is why it's borderline negligence any public safety entity would put ham radio in any critical role. "When all else fails" the population including the hams is heading for the hills. The typical role anymore is manning a shelter counting toilet paper rolls or how many pets are on scene and I guess if that floats you're boat that's OK. In terms of volunteer points I'd say joining the Red Cross would be a much better use of one's time than manning a radio passing arbitrary traffic.

> If we gather requirements and say we will provide services, and then that
> entity doesn't budget for it themselves then that's a bad thing.

So you're already setting the stage that the emcomm service will be by definition secondary/non critical. Which by all rights it really is. From that standpoint then in the eyes of any agency hams are just useful idiots/meat servos that they can give something to do if they show up. Because they need a contingency plan in that event, then they've already solved the problem and don't need hams at all. It would only be a solid local relationship that would instill any level of confidence some number of hams would be there "when all else fails".

> My personal intent has always been tactical / temporary / organized.

But in the ham ISP application the hardware has to be set up, running and continuously tested. Depending on the complexity of the system this may be quite doable with modest investment and volunteer support. But in order to be taken seriously, it has to work when

it's needed. Given that amateur systems are no more (and are often much less) reliable than customer/agency owned systems, this is not a given.

> In the end, I'm absolutely certain we have huge potential

Frankly I don't see it, ham radio has never served a significant role in anything like this. But I do see networking as a tool in the toolbox and if you can find a spot for it, more power to you.

Mark K5LXP
Albuquerque, NM

3168. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-19 05:39:46 UTC
From: Patrick Bouldin
Topic: 3095 Message: 3168

Hi Mark, as I read through the feedback it dawned on me that we just need to get a lot more info on the project doc - in fact every single area you mentioned I agree has to be covered and is fully intended. I don't think it will work to slam anything together - example - the relationship with the agencies, etc. - please recall from the powerpoint that this relationship and review has to happen. We want everyone inside kicking out, not the other way around. On your paragraph suggesting we would set up emcom as non-critical - I never said that - in fact it wouldn't be worth it to spend the time if the payoff were not so great.

In my view the role we would fill would not be otherwise be in any agency budget - I don't think it is today, and I don't see that in the future - so our contribution will be meaningful.

Mark whenever I do corporate business process improvement, the hardest part of the job is getting through the doubters, because they've "been there, done that". Not every project is successful, the ones that are successful always have 100% full support from the CEO and down. That's why we have to make sure we are inclusive. In this case however it will be even harder, because amateur radio operators are volunteers and they can become disgruntled very quickly - unlike a paid job where they have to at least appear to be open minded. My hope is that we get the best of the ideas and everyone can keep the big picture in mind, and not be offended if their particular solution isn't 100% adopted. I think we can do it, if we literally take an oath that each of us agree to set aside personal biases and go with the flow as long as we are achieving our business objectives. In fact, we should take the oath before we start! :)

PS: We barely started gathering data to even draw up proposed objectives - would love any help you'd like to offer! In fact a small group of us are still trying to formalize the committee... early days!

Thanks and 73,
Patrick KM5L

On Mon, Jul 18, 2016 at 11:39 PM, Mark Brueggemann qrq_cw@...
[DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

>
>
>
> On Sun, 7/17/16, Patrick Bouldin patrick@... wrote:
>
> > I myself was not really thinking about an "inked" agreement that locked
> > the amateur communities into providing services, almost
> > contractually and guaranteeing work on a day by day basis.

>
> OK, but in the current emcomm climate there is no possibility of providing
> any service without an established relationship with an agency, proper
> training, certification, etc. The idea if showing up with an ethernet plug
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> solution is going to be agreed upon in advance. It's just too complicated
> and dynamic to know what to create or what it needs to do on-demand.
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> > I suspect that an interesting answer would come from the FCC, or some
> typical
> > county gov't EOC to the following question: "do you feel ARES is
> obligated to
> > provide the services they claim they can
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> I think that implied level of service comes in the form of an MOU or
> specific relationship. If the agency has confidence hams can pull it off
> they can write it into their emergency plans.
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> > While it's true we WANT to be very helpful we are still a volunteer
> force and can only
> > do what we can when we're equipped and when we can deploy
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> Which ain't much, and ain't often. Which is why it's borderline negligence
> any public safety entity would put ham radio in any critical role. "When
> all else fails" the population including the hams is heading for the hills.
> The typical role anymore is manning a shelter counting toilet paper rolls
> or how many pets are on scene and I guess if that floats you're boat that's
> OK. In terms of volunteer points I'd say joining the Red Cross would be a
> much better use of one's time than manning a radio passing arbitrary
> traffic.
>
> > If we gather requirements and say we will provide services, and then that
> > entity doesn't budget for it themselves then that's a bad thing.
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> So you're already setting the stage that the emcomm service will be by
> definition secondary/non critical. Which by all rights it really is. From
> that standpoint then in the eyes of any agency hams are just useful
> idiots/meat servos that they can give something to do if they show up.
> Because they need a contingency plan in that event, then they've already
> solved the problem and don't need hams at all. It would only be a solid
> local relationship that would instill any level of confidence some number
> of hams would be there "when all else fails".
>
> > My personal intent has always been tactical / temporary / organized.
>
> But in the ham ISP application the hardware has to be set up, running and
> continuously tested. Depending on the complexity of the system this may be
> quite doable with modest investment and volunteer support. But in order to
> be taken seriously, it has to work when it's needed. Given that amateur

> systems are no more (and are often much less) reliable than customer/agency
> owned systems, this is not a given.
>
> > In the end, I'm absolutely certain we have huge potential
>
> Frankly I don't see it, ham radio has never served a significant role in
> anything like this. But I do see networking as a tool in the toolbox and if
> you can find a spot for it, more power to you.
>
> Mark K5LXP
> Albuquerque, NM
>
>
>

3169. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz?

Yahoo group: DAWG-HSMM
Date: 2016-07-19 23:00:53 UTC
From: patrick@...
Topic: 3095 Message: 3169

Comments on this topic that are posted on the AREDN forum: Request for Comments - a killer app purpose for HSMM/AREDN/BBHN, etc. | Amateur Radio Emergency Data Network
http://www.aredn.org/content/request-comments-killer-app-purpose-hsmmarednbbhn-etc

Request for Comments - a killer app purpose for HSMM/AREDN/BBHN, etc. | Amateur Radio Em...
http://www.aredn.org/content/request-comments-killer-app-purpose-hsmmarednbbhn-etc I don't think this goes into emcom, or deployment or anything else - it's really to define an application central to push more meaningful buildout of HSMM.

View on www.aredn.org
http://www.aredn.org/content/request-comments-killer-app-purpose-hsmmarednbbhn-etc
Preview by Yahoo

73,
Patrick KM5L

3170. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz? one more thing

Yahoo group: DAWG-HSMM
Date: 2016-07-20 02:14:06 UTC
From: kevin asato
Topic: 3170 Message: 3170

Hey Patrick,
Now that I/we/this community has given reasons why a mesh may not be good investment for a formalized EMCOMM environment, how about looking at it within a more organic and ad hoc environment; possibly smaller planned events where data transfer can be beneficial such as CERT, parades, marathons, bike-a-thons; traditional areas where amateur radio can safely venture into with a reasonable expectation of success. These are events where a mesh can be beneficial where communication links can be short between APs and the expected data requirements well within the pipe size of an AP. Granted, this is the more traditional uses of the technology but these are well suited for it's use..

In mentioning CERT, this would be an easy way in to augment public safety during real and training scenarios but on a more reasonable and localized scale. In doing so, it would always help to be present during the training scenarios such that the communication capabilities that you bring to the table are not an unknown and that you do become welcome. The first duty as a member of CERT, the second as an amateur radio operator.

However, due to the advanced stage of network development for public safety LMR development, including the use of links longer that the reach of WiFi, do not expect that Mesh configured APs can replace this communications infrastructure. If a real communications emergency would happen today, I would fully expect to see the wireless carriers getting involved in bringing in a lot of equipment in the form of COWs (Cell on Wheels) and where an ad hoc cellular network would handle dispatches. These are the same COWs that are being used and practiced with at all the major sports and political events in the last couple of years.

73,
kevin
kc6pob

Comments on this topic that are posted on the AREDN
forum:Request
for Comments - a killer app purpose for HSMM/AREDN/BBHN,
etc. | Amateur Radio Emergency Data Network
Request
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don't think this goes into emcom, or deployment or
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central to push more meaningful buildout of HSMM.

View on www.aredn.org

Preview by Yahoo

73,
Patrick KM5L

3171. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz? one more thing

Yahoo group: DAWG-HSMM
Date: 2016-07-20 03:09:03 UTC
From: Mark Brueggemann
Topic: 3170 Message: 3171

On Tue, 7/19/16, kevin asato kc6pob@... wrote:

> If a real communications emergency would happen today, I would
> fully expect to see the wireless carriers getting involved in bringing
> in a lot of equipment in the form of COWs (Cell on Wheels) and
> where an ad hoc cellular network would handle dispatches.

Right. Contrast a nanostaton running AREDN to the examples below. This stuff has been used in the field for YEARS now. And at the risk of being termed a "doubter", I do seriously doubt any ham solution can come anywhere close. So let the pro's do the mission critical/when all else fails - that ship has sailed. The only chance of amateur involvement in public service are the low/non priority support roles where there isn't any funding or risk. Neighborhood CERT, setting up a water level monitor in a flood location, serving up a video feed of a point of interest - those are opportunities more in line for what hams can realistically achieve and provide a nominally useful contribution. Do those well and the perception and utilization of the amateur service will be boosted by a much greater extent than going down the road of saving humanity with a network of COTS wifi AP's and ultimately netting nothing.

Rapidly Deployable Network

The RDN is a compact, self-contained, man-portable 4G network-in-a-box that enables the establishment of a trusted network for secure, real-time, mission-critical voice, video, data, and sensor communications. It provides mobile, flexible, and self-sufficient communication networks that can adapt to the needs of the mission, whether it is within the confines of a hurricane-ravaged region, military convoy, or combat zone. The RDN can quickly establish communications and extend C4I (Command, Control, Communications, Computers) into areas where communications do not exist or are unsuitable for military use. It can be deployed as a single-cell solution for local communications, or as an ad hoc network with multiple nodes. It can be fully operational in fewer than 10 minutes, operates with minimal user intervention, is approximately the size of a shoebox, and weighs about 10 kg (22 lb).

Deployable Cellular Network

DCN products provide cellular networking functionality in a tactically-oriented, flat architecture. The first generation DCN, the TacBSR, is the smallest, easiest to deploy and operate GSM cellular system available today. It combines multiple network elements into a complete, multifeatured cellular system and also serves as a gateway between cellular and Voice over Internet Protocol (VoIP)-based networks. TacBSR is small, light, and power efficient, and can be implemented on all types of platforms —man-portable as well as ground and air vehicles. The BSR technology is a state-of-the-art cellular technology developed by LGS Innovations’ Government Communications Lab (formerly a part of Bell Labs) specifically for deployment in military, disaster response, and search and rescue operations.

<http://lgsinnovations.com/wp-content/uploads/TacComm-V1.pdf>

Set aside 12 days, dedicate 236 acres, add food, thrill rides, livestock exhibits, and musical entertainment and host 500,000 people, and you have the 2015 New Mexico State Fair. Behind the scenes of this highly anticipated annual event is a team of public safety professionals comprising law enforcement, emergency responders and State and Local government officials, brought together by the State of New Mexico to keep everything running smoothly.

And, keeping all these first responders, departments and agencies 100 percent connected, 24/7, is a dedicated 4G LTE Public Safety Network from General Dynamics Mission Systems. Using the most advanced wireless technology available today, this dedicated 4G LTE network delivers greater coverage, capacity, connectivity, cybersecurity and resiliency than any other public safety wireless system.

Housed in a compact, easily deployed communications trailer, the General Dynamics' 4G LTE Cell on Wheels provides voice and data communications for real time sharing of information, access for all public safety agencies and the ability to instantly deploy resources and make actionable decisions.

<https://gdmissionsystems.com/2015-feature-story-4g-lte-network-aids-law-enforcement-at-new-mexico-state-fair/>

Mark K5LXP
Albuquerque, NM

3172. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz? one more thing

Yahoo group: DAWG-HSMM
Date: 2016-07-20 04:09:43 UTC
From: patrick@...
Topic: 3170 Message: 3172

Hey Kevin and Mark -

Excellent input - and the alternatives mentioned do seem to have the potential to have a big positive impact.

Just for my clarification, and please trust me this is not a baiting question by any means, I simply don't have nearly the emcom and CERT experience that many others do.

I am curious though Kevin on what kind of distinction between a CERT communications support activity (in response to community disasters) compare to "emcom" support activity? In other words why emcom is not so feasible for us to support and CERT is feasible for our support? I noted "planned events", but would there be some planned events in CERT we would support, and some disaster events that CERT is involved we would not support?

That question aside, I certainly see the value of supporting planned events in a way that is appreciated by the community, and agree it's a worthy goal in our planning.

Thanks and 73,
Patrick KM5L

---In DAWG-HSMM@yahoogroups.com, <kc6pob@...> wrote :

Hey Patrick,
Now that I/we/this community has given reasons why a mesh may not be good investment for a formalized EMCOMM environment, how about looking at it within a more organic and ad hoc environment; possibly smaller planned events where data transfer can be beneficial such as CERT, parades, marathons, bike-a-thons; traditional areas where amateur radio can safely venture into with a reasonable expectation of success. These are events where a mesh can be beneficial where communication links can be short between APs and the expected data requirements well within the pipe size of an AP. Granted, this is the more traditional uses of the technology but these are well suited for it's use..

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Comments on this topic that are posted on the AREDN forum:Request for Comments - a killer app purpose for HSMM/AREDN/BBHN, etc. | Amateur Radio Emergency Data Network
Request for Comments - a killer app purpose for HSMM/AREDN/BBHN, etc. | Amateur Radio Em... I don't think this goes into emcom, or deployment or anything else - it's really to define an application central to push more meaningful buildout of HSMM.

View on www.aredn.org

Preview by Yahoo

73,
Patrick KM5L

3173. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz? one more thing

Yahoo group: DAWG-HSMM
Date: 2016-07-20 04:42:04 UTC
From: patrick@...
Topic: 3170 Message: 3173

Mark I can certainly see what you mean, and agree it would be difficult to justify trying to displace something commercial that is working, and working well. I would like to follow-up on that though.

Our assistance is part technology and part process/organization/motivation. So, again not a baiting question I simply do not know at the moment; are you saying that the first 24-72 hours or so after widespread natural disaster that the commercial technology is being deployed and also effectively (nationwide, and predictably in the aftermath)? Such that if you were to ask municipalities if they felt and saw the positive impact with communications between agencies and private relief organizations that they would clearly point to it?

The '90's a long way off at this point. My only personal experience with actually being in a tornado path and having my own community (Lancaster Texas) so seriously damaged was frustrating as a ham.

In the early evening after my wife and I were leaving from our softball game we could see a monster of a storm coming - I told her "that's going to be a &*# of a storm, we need to get home". There were not many deaths, but a couple hundred houses were missing the next morning, and the early hours after the storm there was not much organized ham communication going on. I distinctly remember cell sites down (I do realize the build out was much less then), and also the police didn't have radio for a few hours.

But what struck me (other than losing 2 mature trees and my 1200 sq. ft. barn - but thank God my wife and two kids were unharmed) - anyway, what struck me was that the response seemed extremely chaotic. There were agencies everywhere but it didn't seem like much coordination between them. In fact I showed up with my radio gear and after determining there was no active role I set my talkie down, picked up a chain saw and worked for the next several days.

I'm sure things have changed as far as technology, I just wonder if they have made great strides in the response protocol between the agencies, private support and volunteers. Oh, that reminds me, man we could have used some major communication coordination on the clean up, it was very random for a few days with well meaning organizations (churches, Red Cross, random volunteers).

So do we know that the immediate response for deploying temporary inter-agency communication was adequate in the aftermath of the 2015 storms, for example? Who would we ask?

Thanks and 73,
Patrick KM5L

3174. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz? one more thing

Yahoo group: DAWG-HSMM
Date: 2016-07-21 04:16:40 UTC
From: Mark Brueggemann
Topic: 3170 Message: 3174

On Tue, 7/19/16, patrick@... wrote:

> it would be difficult to justify trying to displace something
> commercial that is working, and working well.

Decades ago when technology wasn't quite as pervasive hams might have had capabilities that the public or commercial sector didn't. Today it would be a very unusual circumstance hams had anything that was was better in just about any way. Except those that are involved in the industry, most people have no idea what's behind the curtain in terms of commercial and public systems and infrastructure. Hams have incrementally advanced technically over the past couple decades but the commercial sector has grown exponentially. For some reason hams think they've got an edge on "when all else fails". That commercial and public entities haven't considered or anticipated those scenarios. Anymore, when all else *does* fail means something pretty terrible is going on. When things are that broken you're pretty much past the point where hams are going to do much and to think emergency response agencies haven't already planned for those scenarios is ignorant.

> Our assistance is part technology and part process/organization/motivation.

But there's no resources behind it. It's not only a volunteer force, it's a *small* volunteer force. Nationally we have what, 10 'go kits' the League manages and sends out? You see pockets of activity where some funding for equipment or infrastructure exists, usually in the form of a public funded repeater or some transceivers at an EOC. That's the best that it gets, otherwise it's a small contingent of (old/retired) folks with widely varying capabilities using self provided equipment. Realistically, what can any agency do with that? The League has attempted to create some modicum of standards and structure but there's only so much they're going to do with such a limited resource, and frankly I think they're scared of making it any more formal than it is. So you're right when you say it's part technology, process, organization and motivation but you have very little of any of those to work with. You're looking for a "killer app" but you need everything else around it too.

> again not a baiting question

No worries. I enjoy a civil debate. And I can type 100+ wpm... :-)

> are you saying that the first 24-72 hours or so after
> widespread natural disaster that the commercial
> technology is being deployed and also effectively

Yes, for the most part and getting better all the time. Looking back the last 10 or so years observe how even consumer networks have been increasingly reliable. People were streaming live from the earthquake in Haiti. News networks were there within hours and giving live reports. They have their deployable satellite links, what makes you think public safety and military entities don't too? During hurricane Sandy the cell networks stayed up or were restored very quickly. The stories you heard weren't that the network went down but that people had no way to charge their phones. When you have deployable

network equipment that can be trailered in or in the case of the LGS DCN carried in a backpack if necessary, service for military and agency networks can be bridged and patched much more quickly than ever before. The consumer networks are not far behind.

For widespread disasters like a Katrina or a large earthquake, where infrastructure of all types is broken or disrupted one has to consider the utility of communications into that area. The example of that I like to cite is a ham I know that lived in New Orleans during Katrina who actually rode it out there (retired military/self sufficient type). He used all the same adjectives you heard from the press - "surreal", "war zone", etc. He set up a station and ran it off his car battery. Now what? Sure, he could make contact outside his area. But practically it didn't solve any problem. People around him had no way to relay information to him, and he had no way to relay information back. And just what could he convey that wasn't already known? At a fundamental level there was no uncertainty where the disaster was, or what was needed. So having a guy in the thick of it doesn't really change much. Sure the need is there to relay calls for aid but it's dispersed, and there isn't and cannot be a sufficient density of hams to solve that. From life or death to health and welfare traffic, there's no way for victims/evacuees to find and access ham operators even if they were there. Now today when just about every citizen has a cell phone or is near someone that does. The right way to deal with widespread communications is to provide the connectivity and let people do it themselves. One satellite linked airborne cell site can service literally thousands of people within it's line of sight in the span of an hour. One ham station might pass a few hundred messages a day and those have to be relayed. The usual ham response is "a few hundred is more than zero" and that's correct. As an independent effort hams can get together and make that happen if they want. But to sell that idea to an agency as a backup when they have access to a tool they can drop in from a helicopter and check the box, you have quite a sales pitch to do.

So we're back to the non critical/support role ham radio can realistically offer. This is after the fires are out, waters recede, looters rounded up and aid agencies are being established. Communications is part of that and aid traffic on cell/IP networks may not be high enough priority to be allowed yet so here's were some hams showing up and creating lines of communication are useful. Here's where the MOU's with organizations like the red cross get the foot in the door. It would be terribly useful if some standards were developed as to what they're expecting and what we should deliver rather than the current regional/event centric response we have now but it would seem that would be the goal.

> if you were to ask municipalities if they felt and saw
> the positive impact with communications between agencies
> and private relief organizations that they would clearly
> point to it?

Deployable networks not quite that generic. Access to temporary networks is granted on a priority basis just as on consumer networks. Joe Sixpack trying to call his wife gets a busy signal when the fire chief is on the horn. Access by outside organizations may not even be possible or allowed. Relief organization traffic while potentially important isn't priority, so they're either self reliant or out of luck. Now you're going to step in and say here comes ham radio to save the day. And my response will be to see above, a limited resource, small volunteer contingent. What organization would hang their hat on that? Historically a few, in a few places.

> My only personal experience with actually being in a
> tornado path and having my own community ... so

> seriously damaged was frustrating as a ham.
...
> the early hours after the storm there was not much
> organized ham communication going on.

OK, but to accomplish what? A team of people with chainsaws instead of HT's would probably be a lot more useful.

> also the police didn't have radio for a few hours.

And you can bet the minute the tornado was gone there was a team of commercial 2-way guys on it doing whatever they needed to get them back going. Been there, done that. Public safety radios nearly universally have a simplex/talkaround, failsoft, mutual aid and tactical channels so while maybe their primary dispatch was out, they still had means to communicate. Again, an assumption that agencies didn't think about the possibility their primary dispatch channel going down and not having a backup. Most municipalities I serviced had way more backups and redundancies than anything I've ever seen in ham radio.

> what struck me was that the response seemed extremely chaotic.

Public safety is manned for day to day. When things are turned upside down there's only so much resource to deal with the flood of calls for service. So yeah, run a tornado through a town and it's going to break things. If communications remained 100% functional it wouldn't change the situation much. There are only so many fireman and policemen and they have trained for these things.

> In fact I showed up with my radio gear and after determining there was no active
> role I set my talkie down, picked up a chain saw and worked for the next several days.

Well, there you go.

> I just wonder if they have made great strides in the response
> protocol between the agencies, private support and volunteers.

I don't have evidence to back it up but my perception is private organizations and volunteers will be on their own. That translates to self sufficiency (bring your own network) or opportunity (use someone else's when it's available). I think the goal of amateur emcomm for some time has been to elbow in to provide service whenever and wherever possible in the private support role. But there's just not enough numbers and capability to garner much attention or acceptance. In my decades of participation and observation any inroads hams have made are at the local level, sponsored by a proficient and active group that digs in and makes it happen. And that's just to get the chance to count the toilet paper rolls at the evacuation shelter. When you read the after action reports from the League, for the most part groups report they ran nets amongst themselves and relayed some messages between EOC's. Oh yeah, and they were "ready" (for -?). In a bigger disaster you just might handle some volume of traffic supporting relief logistics. Anticipating that sliver of opportunity, then having the equipment and manpower to make it happen for that one in 10,000 chance is a tough challenge. In the last decade where agencies have upped the ante by requiring ICS/NIMS training/certification, the resource pool has been diminished even further. I bailed when the local municipality refused to recognize amateurs as volunteers and required us to carry our own bond to participate.

> man we could have used some major communication coordination
> on the clean up,

I think that's well past the point of being an emergency so therefore no legitimate amateur role at all.

> So do we know that the immediate response for deploying temporary
> inter-agency communication was adequate in the aftermath of the
> 2015 storms, for example? Who would we ask?

If you mean from a public safety inter-agency perspective that's something ongoing and has been since 9/11 brought that issue to light in a big way. I know that most dispatch centers have facilities to patch disparate agencies together from separate networks, and within the same network sub groups can be dynamically linked. There are federal guidelines for wide area interoperability but as far as how those standards are implemented and utilized I can't answer. I'm not sure it matters in an emcomm context - it's not like hams are going to be the backup between FEMA and the National Guard, or the state police. About the best you're going to get is having a seat at an EOC providing reports from the field, and with a lot of ground work helping the Red Cross get supplies where they're needed. Or stick with the more pedestrian support role for parades and marathons where there is still a place for a guy with an HT to help out.

Mark K5LXP
Albuquerque, NM

3175. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz? one more thing

Yahoo group: DAWG-HSMM
Date: 2016-07-21 04:49:22 UTC
From: Patrick Bouldin
Topic: 3170 Message: 3175

Hi Mark,

Thanks for the thoughtful response.
Best,
Patrick KM5L

On Wed, Jul 20, 2016 at 11:16 PM, Mark Brueggemann qrq_cw@...
[DAWG-HSMM] <DAWG-HSMM@yahoogroups.com> wrote:

>
>
> On Tue, 7/19/16, patrick@runthisproject.com wrote:
>
> > it would be difficult to justify trying to displace something
> > commercial that is working, and working well.
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> Decades ago when technology wasn't quite as pervasive hams might have had
> capabilities that the public or commercial sector didn't. Today it would
> be a very unusual circumstance hams had anything that was was better in
> just about any way. Except those that are involved in the industry, most
> people have no idea what's behind the curtain in terms of commercial and
> public systems and infrastructure. Hams have incrementally advanced
> technically over the past couple decades but the commercial sector has
> grown exponentially. For some reason hams think they've got an edge on
> "when all else fails". That commercial and public entities haven't
> considered or anticipated those scenarios. Anymore, when all else *does*
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> widely varying capabilities using self provided equipment. Realistically,
> what can any agency do with that? The League has attempted to create some
> modicum of standards and structure but there's only so much they're going
> to do with such a limited resource, and frankly I think they're scared of
> making it any more formal than it is. So you're right when you say it's
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> bigger disaster you just might handle some volume of traffic supporting
> relief logistics. Anticipating that sliver of opportunity, then having the
> equipment and manpower to make it happen for that one in 10,000 chance is a
> tough challenge. In the last decade where agencies have upped the ante by
> requiring ICS/NIMS training/certification, the resource pool has been
> diminished even further. I bailed when the local municipality refused to
> recognize amateurs as volunteers and required us to carry our own bond to
> participate.
>
> > man we could have used some major communication coordination
> > on the clean up,
>
> I think that's well past the point of being an emergency so therefore no
> legitimate amateur role at all.
>
> > So do we know that the immediate response for deploying temporary

> > inter-agency communication was adequate in the aftermath of the
> > 2015 storms, for example? Who would we ask?
>
> If you mean from a public safety inter-agency perspective that's something
> ongoing and has been since 9/11 brought that issue to light in a big way.
> I know that most dispatch centers have facilities to patch disparate
> agencies together from separate networks, and within the same network sub
> groups can be dynamically linked. There are federal guidelines for wide
> area interoperability but as far as how those standards are implemented and
> utilized I can't answer. I'm not sure it matters in an emcomm context -
> it's not like hams are going to be the backup between FEMA and the National
> Guard, or the state police. About the best you're going to get is having a
> seat at an EOC providing reports from the field, and with a lot of ground
> work helping the Red Cross get supplies where they're needed. Or stick
> with the more pedestrian support role for parades and marathons where there
> is still a place for a guy with an HT to help out.
>
> Mark K5LXP
> Albuquerque, NM
>
>
>

3176. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz? one more thing

Yahoo group: DAWG-HSMM
Date: 2016-07-21 06:54:55 UTC
From: kevin asato
Topic: 3170 Message: 3176

CERT in my city is much like a local self-help group for local emergencies/disasters. They are given basic training in first aid, fire suppression, and extrication (i live in earthquake country!). CERT personnel are required to stand down once the professionals are on scene unless they have the correct specialized skills. Communications would be more in line with Amateur Radio operators as little training is required to make one a communicator between CERT members. At the police and fire dispatch level (and including city services), the dispatchers talk the talk on a daily basis and possess enough knowledge of the what resources can be sent where or what mutual aid resources can be had without having to ask around. The dispatchers also know enough of the radio systems to improvise on the spot to get over problems they encounter including the use of mutual aid frequencies. Finally, they hear the nuances of what is being aired to be able to ask the next (important) question as they work as resource managers. You can't get that experience from taking emcomm classes or RACES training.

In my area, CERT does not get activated a lot (thankfully). Local police and fire call up non-sworn personnel and go on mutual aid, if need be, to handle planned events as practice for emergency call out. Local emergencies are handled similarly as I have heard up to 7 different agencies (adjacent cities, county, US Coast Guard) called in for assistance. (Yes, Redondo Beach and the surrounding cities still exist on analog radios for the time being so they are scanner accessible!)
73,
kevin
kc6pob

Kevin on what kind of distinction between a CERT communications support activity (in response to community disasters) compare to "emcom" support activity? In other words why emcom is not so feasible for us to support and CERT is feasible for our support? I noted "planned events", but would there be some planned events in CERT we would support, and some disaster events that CERT is involved we would not support?

3177. Re: [DAWG-HSMM] DFW mesh with 3.4 GHz? one more thing

Yahoo group: DAWG-HSMM
Date: 2016-07-23 11:11:22 UTC
From: patrick@...
Topic: 3170 Message: 3177

Very good input, Kevin, thanks.

I think where we're at right now is an interesting distillation of what may make sense.

For the next few days, possibly weeks, a few of us are out collecting some data - we think we have a good objective being distilled - more later.

Thanks all,
Patrick, KM5L

3178. Deployable mesh system

Yahoo group: DAWG-HSMM
Date: 2016-07-23 23:56:30 UTC
From: Dale Urban
Topic: 3178 Message: 3178

I have been following the conversation with interest about deployable vs. wide area mesh networks.
Take a look at this video https://youtu.be/GvAyf5LpDrg this concept would work great for a mobile deployable mesh system with simultaneous voice and data. A manpack style radio where you could use it pedestrian mobile or in a vehicle or home base station using the 1296 mhz band or maybe the a ubiquiti products would seem to be ideal. I know the radios in the video are very expensive and we would never see this in the amateur world but I think the concept would be worth looking at. Dale N0KQX

>
> Reply via web post • Reply to sender • Reply to group • Start a New Topic •
> VISIT YOUR GROUP
> • Privacy • Unsubscribe • Terms of Use
> .
>
>
>

3179. DCC Call for Technical Papers: Deadline Extended to August 12th - ARRL/TAPR DCC (Digital Communications Conference), St. Petersburg, FL, September 16 - 18, 2006

Yahoo group: DAWG-HSMM
Date: 2016-08-10 05:32:00 UTC
From: Mark Thompson
Topic: 3179 Message: 3179
Attachments: 1 described; binary payloads are missing from this source WARC

DCC Call for Papers - Deadline Extended to August 12

Technical Papers are being solicited for presentation at the 35th Annual ARRL/TAPR Digital Communications Conference (DCC), to be held September 16-18 in St Petersburg, Florida. Papers will also be published in the Conference Proceedings. Authors do not need to attend the conference to have their papers included in the Proceedings. The submission deadline has been extended to August 12, 2016.
The ARRL/TAPR Digital Communications Conference is an international forum for technically minded radio amateurs to meet and present new ideas and techniques.
Paper/presentation topic areas include — but are not limited to — software defined radio (SDR), digital voice, digital satellite communication, digital signal processing (DSP), HF digital modes, adapting IEEE 802.11 systems for Amateur Radio, Global Positioning System (GPS), Automatic Position Reporting System (APRS), Linux in Amateur Radio, AX.25 updates and Internet operability with Amateur Radio networks.
Submit papers to via e-mail (maty@...) or via post to Maty Weinberg, KB1EIB, ARRL, 225 Main St, Newington, CT 06111. Papers will be published exactly as submitted, and authors will retain all rights.
http://www.tapr.org/dcc#dcccallforpapers

http://www.tapr.org/dcc

ARRL/TAPR DCC Saint Petersburg, FL September 16 - 18, 2016
Call for Technical Papers
Technical papers are solicited for presentation at the ARRL and TAPR Digital Communications Conference and publication in the Conference Proceedings.
Annual conference proceedings are published by the ARRL. Presentation at the conference is not required for publication.
Details on Call for Papers & Submission Guidelines are on TAPR DCC web site.
Submission of papers are due by July 31st, 2016 and should be submitted to:Maty Weinberg, ARRL225 Main StreetNewington, CT 06111or via the Internet to maty@...
Note: Papers may continue to be accepted for a short time after deadline so please submit your paper as soon as possible if you haven't done so already.

http://www.tapr.org/dcc#dcccallforpapers

Details on Call for Papers

Technical papers are solicited for presentation at the ARRL and TAPR Digital Communications Conference for publication in the Conference Proceedings.Annual conference proceedings are published by the ARRL. Presentation at the conference is not required for publication.The ARRL and TAPR Digital Communications Conference is an international forum for radio amateurs to meet, publish their work, and present new ideas and techniques. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and

software advances, theories, experimental results, and practical applications. Topics include, but are not limited to:
- Software Defined Radio (SDR)
- Digital voice (D-Star, P25, WinDRM, FDMDV, DRMDV, G4GUO)
- Digital satellite communications
- Global position system
- Precise Timing
- Automatic Packet Reporting System (APRS)
- Short messaging (a mode of APRS)
- Digital Signal Processing (DSP)
- HF digital modes
- Internet interoperability with Amateur Radio networks
- Spread spectrum
- IEEE 802.11 and other Part 15 license-exempt systems adaptable for Amateur Radio
- Using TCP/IP networking over Amateur Radio
- Mesh and peer to peer wireless networking
- Emergency and Homeland Defense backup digital communications in Amateur Radio
- Updates on AX.25 and other wireless networking protocols
- Topics that advanced the Amateur Radio art

Submission Guide Lines

Anyone interested in digital communications is invited to submit a paper for publication in the Conference Proceedings. Presentation at the Conference is not required for publication. If you know of someone who is doing great things with digital communications, be sure to personally tell them about this!See above for deadlines and where to submit your paper.Some quick guidelines:
- Papers should be on 8-1/2 X 11 inch paper with the following margins: left and right, 0.75 inch; top, 0.8 inch; and bottom, 1 inch (very important).
- Structure of paper should be (see single column example below, two column should follow a similar format):
- Title
- Author(s) with affiliation
- Abstract (200 words or less)
- Key words (3-5)
- Body
- Reference List

- Papers can be in one- or two-column format.
- Use 12-point Times Roman for the main body of text; do not number pages.
- Photos and drawings should have good contrast. Note: a photocopy gives a good indication of print quality.
- Electronic submissions can be made in any of the following formats:
- Adobe Acrobat PDF;
- Microsoft Word

- Reference citations and other topics not explicitly discussed in this list should follow a recognized standard format (APA , IEEE, etc).
- A biographical page is to be included with the manuscript. It should contain Name, Address, Phone, and E-mail for each author as well as a short descriptive paragraph about the first author. The bio page will be used to contact authors concerning the conference and presentation schedule.

Release form:
A formal release form is not required, but indicate that the paper is being sent for use in the Proceedings of the ARRL and TAPR Digital Communications Conference. You are only giving permission for your paper to be printed in the Proceedings.Example Single Column Page Layout
Two column would be similar in nature, but with two columns. View Paper Example

3180. ARRL/TAPR DCC (Digital Communications Conference), Registration & Hotel, St. Petersburg, FL, September 16 - 18, 2016

Yahoo group: DAWG-HSMM
Date: 2016-08-13 20:57:38 UTC
From: Mark Thompson
Topic: 3179 Message: 3180
Attachments: 1 described; binary payloads are missing from this source WARC

2016 ARRL/TAPR DCC (Digital Communications Conference) Registration & Hotel
Saint Petersburg, FL
September 16 - 18, 2016
Register for the Conference
Pre-registration (discounted fees) will close on September 1, 2016 to allow the office staff to complete preparations (print badges and stuff envelopes) and travel to the conference.Use of the on-line registration form after September 1, 2016 up to the day before the conference is encouraged, as it will save time at the registration desk vs having to fill in hard copy forms and wait for credit card processing..Walk-ins are welcome.Online Registration Form
https://www.tapr.org/dccregistration.phpTucson Amateur Packet Radio
Phone: (972) 671-TAPR (8277)
Email: TAPROFFICE@...

HOTELHilton St Petersburg Bayfront

Conference presentations, meetings, and seminars will be held at the Hilton St Petersburg Bayfront.It is highly recommended that you book your room prior to arriving.
A block of rooms at the special DCC room rate of $109.00 single/double.This special rate is good until August 25, 2016. after that you will pay the regular room rate.To book your room, use the reservation link below or call the hotel directly (phone number below) and mention the group code TAPR when making reservations.To use the link below, do not try to log-in to your HHonors account. You should just follow through with your selections etc. Then when you are asked for personal data, there will be a blank to enter you HHonors number.Reservation Link
http://www.hilton.com/en/hi/groups/personalized/S/SPTSHHF-TAPR-20160914/index.jhtml
Be sure to book your rooms early!Hilton St Petersburg Bayfront
333 1st Street, South
St Petersburg, FL 33701
1-800-HILTONS (1-800-445-8667) National reservation line
1-800-944-5500 Hotel DirectCome early, stay late. The conference rate is good for 3 days before and 3 days after DCC.

3181. ARRL/TAPR DCC (Digital Communications Conference), St. Petersburg, FL, 9/16-18, Banquet Speaker & Sunday Seminar Announced and Technical Forums Finalizing

Yahoo group: DAWG-HSMM
Date: 2016-09-02 06:36:00 UTC
From: Mark Thompson
Topic: 3179 Message: 3181
Attachments: 1 described; binary payloads are missing from this source WARC

ARRL/TAPR DCC (Digital Communications Conference)
St. Petersburg, FL
September 16 - 18, 2016

http://www.tapr.org/dcc#banquet

Saturday Night Banquet Speaker Announced

Speaker:
Brennan Price, N4QX
ARRL CTO (Chief Technology Officer)

Topic:
"New Frontiers in Wireless: Challenges to and Opportunities for Amateur Radio"

http://www.tapr.org/dcc#seminar

Sunday Seminar Announced

Seminar Conducted by:
Michelle Thompson, W5NYV

Bob McGwier, N4HY
Chief Scientist, Hume Center for National Security and Technology as a Professor of Electrical and Computer Engineering as well as Aerospace and Ocean Engineering

Topic:
"Spectrum (It's the frequency crunch for real)"

http://www.tapr.org/dcc

DCC Technical Presentations
The DCC Technical Forum Schedule is being finalized, however a couple times slots may be available.
If you would like to present a Technical Topic at the DCC, but haven't submitted a technical papaer in advance please email the TAPR Office at: taproffice@... with the topic of your presentation.
The Technical Forum schedule should be published soon.

3182. NIST’s Rolling Wireless Net Helps Improve First-R esponder Communications

Yahoo group: DAWG-HSMM
Date: 2016-09-05 03:46:23 UTC
From: Douglas Kilgore
Topic: 3182 Message: 3182

NIST’s Rolling Wireless Net Helps Improve First-Responder Communications

https://www.nist.gov/news-events/news/2016/08/nist%E2%80%99s-rolling-wireless-net-helps-improve-first-responder-communications

Check out this article.

Doug KD5OUG

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https://www.avast.com/antivirus

3183. Re: NIST’s Rolling Wireless Net Helps Improve First-R esponder Communications

Yahoo group: DAWG-HSMM
Date: 2016-09-06 03:20:02 UTC
From: cyberstick@...
Topic: 3182 Message: 3183

This looks a lot like what Raytheon's JPS stuff was born from, maybe. Appears that Raytheon closed it down http://www.9-1-1magazine.com/Corp-Raytheon-Closes-JPS-Comms-Business-Unit?TopicID=519.

KB3JUV had some neat pics of the annual mobile command vehicle rallies on Picasaweb but that site is gone now, that's where I learned about the JPS interop stuff. Looks like Archive.org has them but maybe this link https://get.google.com/albumarchive/101611343944021359164?source=pwa will stay up a while (until Google kills that too). What JPS was http://www.raytheon.com/rtnwcm/groups/gallery/documents/digitalasset/rtn_141802.pdf.

Here are some current pics https://plus.google.com/+JustinKates/photos of his.

3184. ARRL/TAPR DCC (Digital Communications Conference), St. Petersburg, FL, 9/16-18, Banquet Speaker & Sunday Seminar Announced and Technical Forums Finalizing

Yahoo group: DAWG-HSMM
Date: 2016-09-11 19:40:19 UTC
From: Mark Thompson
Topic: 3179 Message: 3184
Attachments: 2 described; binary payloads are missing from this source WARC

ARRL/TAPR DCC (Digital Communications Conference)
St. Petersburg, FL
September 16 - 18, 2016

Forum / Speaker Scheduled Announced
http://www.tapr.org/pdf/DCC_2016_Schedule_Preliminary%202016-09-06.pdf

DCC Registration https://www.tapr.org/dccregistration.php

3185. Re: ARRL/TAPR DCC (Digital Communications Conference), St. Petersburg, FL, 9/16-18, Forum /Speaker Schedule Announced (Revised Subject)

Yahoo group: DAWG-HSMM
Date: 2016-09-11 20:00:08 UTC
From: Mark Thompson
Topic: 3179 Message: 3185
Attachments: 2 described; binary payloads are missing from this source WARC

ARRL/TAPR DCC (Digital Communications Conference)
St. Petersburg, FL
September 16 - 18, 2016

Forum / Speaker Scheduled Announced
http://www.tapr.org/pdf/DCC_2016_Schedule_Preliminary%202016-09-06.pdf

DCC Registration https://www.tapr.org/dccregistration.php

3186. NTX-AREDN Meeting Sat. Morning Oct. 8 At St. Barnabas Presby Church

Yahoo group: DAWG-HSMM
Date: 2016-10-03 21:47:16 UTC
From: Douglas Kilgore
Topic: 3186 Message: 3186

There will be a meeting of hams interested in the Amateur Radio Emergency Data Network (AREDN) in North Texas on Saturday morning, Oct. 8 at St. Barnabas Presbyterian Church, 1222 West Beltline Rd, Richardson. A 10:00am informal work and node testing session will be followed a formal presentation at 12:30pm to the North Texas Microwave Society (NTMS) which meets in the afternoon in the same room. Visitors are welcome.

The purpose of AREDN is to deliver quality, high-speed data communications for Emergency Communications using 2.4, 3.3 and 5.8 GHz amateur radio frequencies not shared with Part 15 WiFi users. Amateur developed software is loaded into commercial off-the-shelf equipment which is then used to create a mesh data network.

More info about AREDN can be found at: http://www.aredn.org/

The Google Forum for the North Texas AREDN SIG is available at:

https://groups.google.com/forum/?utm_medium=email&utm_source=footer#!forum/ntx-aredn

Doug Kilgore KD5OUG Ph 214-770-2395 Cell

Email: kilgore1317@...

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https://www.avast.com/antivirus

3187. Re: [NTX-AREDN] AREDN Work and Testing Session - 8 October - Meeting Time Change

Yahoo group: DAWG-HSMM
Date: 2016-10-06 05:26:38 UTC
From: Douglas Kilgore
Topic: 3187 Message: 3187

In order to give us more time to test and load firmware, the doors to the church will open at 9:00am. The NTMS group starts gathering at 12:00 so we will have about 30 minutes to meet them before Bill Richards KM5VZ makes a Power Point presentation about AREDN to them about 12:30pm.

I will have the Ubiquiti ToughCable (Carrier grade) CAT-5e cable for sale at the meeting - $.65 per meter. Also have the ToughCable connectors for $.75 each.

If you plan to plug into the AC power, bring an extension cord.

Talk-in will be on the K5RWK 147.12 repeater.

Doug Kilgore

On 10/4/2016 5:51 AM, Timothy Bratton - K5RA wrote:
> There will be a meeting of hams interested in the Amateur Radio
> Emergency Data Network (AREDN) in North Texas on Saturday morning,
> Oct. 8 at St. Barnabas Presbyterian Church, 1222 West Beltline Rd,
> Richardson. A 10:00am informal work and node testing session will be
> followed a formal presentation at 12:30pm to the North Texas Microwave
> Society (NTMS) which meets in the afternoon in the same room.
> Visitors are welcome.
> --

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3188. Save this date Technician level training class

Yahoo group: DAWG-HSMM
Date: 2016-11-06 20:10:16 UTC
From: mbpruden@...
Topic: 3188 Message: 3188

Save This Date: HAM RADIO CLASS
The Plano Amateur Radio Club will be presenting a Technician level amateur radio class on December 3rd-4th, 2016. The class will be held at the Allen Central Fire Station training center, which is located at 310 Century Parkway, in Allen TX.. As always the class is free, the EXAM is $14.00 cash. We are looking at a timeframe of 8:00am- 3:00pm on Saturday and 9:00am- 2:00pm on Sunday, with the EXAM starting at 3:00 on Sunday. Limited parking should be available on the north side of the fire station. Additional parking is available across the street (Century Parkway), at the City of Allen municipal complex. A government issued photo ID will be required to take the exam on Sunday afternoon (FCC Requirement).
Other amateur radio class exams (General,Extra) will also be available for those wishing to take those exams. You need to bring a copy of your current amateur radio license.

To prepare for this class, we urge you to pick up a copy of the Ham Radio School's Technician Class study guide prior to the class, and read through the course material at least once. You should not expect to just walk in to the two day training class and grasp all the necessary information to successfully pass the exam. But, if you prepare by reading through the study guide, and marking any items that you have questions about, and then pay attention and ask questions during the two day training class, there is an excellent probability that you will pass the exam with a high score.

These study guides are available locally at the Ham Radio Outlet store 701 E. Plano Parkway Suite 406, across the street from Fry's Electronics in Plano. The cost for the study guide should be $19.95. We also have a number of used study guides available, which we can loan you for a $14.00 cash security deposit. When you return these used study guides, in good condition (not marked up or dog ear'ed), your $14.00 security deposit will be applied to the $14.00 cost to take the examination. Basically, we save you the cost of buying the study guide.

To register for this class, or if you have additional questions, please send an email to Mike Pruden at (NN5ZZ@arrl.net). Please provide your NAME, EMAIL ADDRESS, and TELEPHONE NUMBER.

Let us know if you are interested in one of our used study guides, and we will contact you regarding how to pick up your copy.

Thanks
Mike Pruden

NN5ZZ@arrl.net

3189. K5RWK student drawing for a FREE ham radio FM transceiver!

Yahoo group: DAWG-HSMM
Date: 2016-11-21 04:49:42 UTC
From: Douglas Kilgore
Topic: 3189 Message: 3189

Please disseminate to club members.

*Richardson Wireless Klub
*P.O. Box 830232 -Richardson, TX 75083-0232
Contact: Richard Morgan – 972-931-7993
Website: http://k5rwk.org

*News Release**For immediate release*

Students urged to apply for chance to win a free ham radio!

*
*

The Richardson Wireless Klub plans to give away a VHF/UHF radio transceiver.

*
*

Richardson, TX, November 18, 2016 – In an effort to encourage science-minded youth to get their ham radio license, the Richardson Wireless Klub offers a chance to win a */free/* Baofeng BF-F9V2+ Dual Band FM transceiver to any currently enrolled student who passes his/her FCC amateur radio operator's license exam between Nov.15, 2016 and Feb. 28, 2017. Other local ham clubs are encouraged to help pass the word!

The dates were selected to allow a student to use his/her free time over the upcoming holidays to self-study for the amateur radio Technician's license. One transceiver will be awarded to the winner of the drawing.

*
*

*The Klub *also cites several recommended license exam study guides and on-line practice exams.
Other resources mentioned include several youth-related links available through the American Radio Relay League (ARRL), the national voice for amateur radio. For full details and eligibility go to:

http://k5rwk.org/rwk01/attachments/article/6/Student%20Drawing-3.pdf
*
The Richardson Wireless Klub, Inc.* is one of hundreds of Special Service amateur radio clubs across America that provide community communications services. Volunteers coordinate monthly emergency siren tests with the City of Richardson. Local ham radio operators also participate in the Radio Amateur Civil Emergency Service (RACES), and the Amateur Radio Emergency Service (ARES). Ham volunteers**also provide

free communications support for the Richardson Christmas Parade, bike rallies, marathon races, and other events sponsored by North Texas charitable organizations. The club is a non-profit 501c3 corporation and has served the Richardson area for more than fifty years*.* The club holds monthly amateur radio meetings at 6:30 P.M. the second Monday of each month at St. Barnabas Presbyterian Church, 1220 W. Beltline Road, Richardson, TX. Meetings are open to anyone, of any age, who is interested in learning more about the many exciting facets of amateur radio and wireless communications.

***

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https://www.avast.com/antivirus

3190. General Class Radio License Course and Exam

Yahoo group: DAWG-HSMM
Date: 2016-12-28 20:24:20 UTC
From: mbpruden@...
Topic: 3190 Message: 3190

General Class Radio License Course and Exam

The Plano Amateur Radio Club is in the planning stages of scheduling a General Class License radio class and exam for sometime in the February - March time frame. We are trying to get a feel for how much interest there would be in this type of class. We envision this class occurring over two consecutive weekends (Saturday and Sunday) in the month of either February or March. The class would be free, but the exam would cost $14.00. If you would be interested in participating in this type of class, please send an email to NN5ZZ@arrl.net mailto:NN5ZZ@arrl.net and please include your NAME, EMAIL ADDRESS, and TELEPHONE NUMBER, and we will contact you, as the details are firmed up.

Thanks for Interest

Mike Pruden

NN5ZZ

3191. New file uploaded to DAWG-HSMM

Yahoo group: DAWG-HSMM
Date: 2017-01-03 15:07:39 UTC
From: DAWG-HSMM@yahoogroups.com
Topic: 3136 Message: 3191

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the DAWG-HSMM
group.

File : /olsr-map-windows/README.txt
Uploaded by : kd5rxt_mark <mjculross@...>
Description : This file contains the full instructions on how to make use of this olsr-map capability under Windows, including what to download & install, as well as what/how to run it.

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/DAWG-HSMM/files/olsr-map-windows/README.txt

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

kd5rxt_mark <mjculross@...>

3192. Save This Date: General License Ham Radio Class

Yahoo group: DAWG-HSMM
Date: 2017-01-08 18:48:37 UTC
From: mbpruden@...
Topic: 3192 Message: 3192

Save This Date: General License Ham Radio Class

The Plano Amateur Radio Club will be presenting a General level amateur radio class on two consecutive weekends in February. The class will be on Saturday and Sunday: February 11th-12th and February 18th-19th. The class will be held at the Lucas Fire Station training facility. The fire station is located at 165 Country Club Ln, which is just north of Bethany/Lucas Rd, in Lucas. Lucas is located just east of Allen, TX off of US Hwy 75 at the Bethany Rd. Exit. As always the class is free, the test is $14.00 cash. We are looking at a timeframe of 8:00am- 5:00pm on each date, with the EXAM starting at 3:00 on Sunday February the 19th. Parking should be available on the south side of the fire station. A government issued photo ID will be required to take the exam on Sunday afternoon (FCC Requirement).

To prepare for this class, we urge you to pick up a copy of one of the general class study guides, and read through the material at least once prior to the class. You should not expect to just walk in to the four day training class and grasp all the necessary information to successfully pass the exam. But, if you prepare by reading through the study guide at least once, and marking any items that you have questions about, and then pay attention and ask questions during the four day training class, there is an excellent probability that you will pass the exam with a high score.

Our course material is based on the "Ham Radio School's General Class Study Guide." These study guides are available locally at the Ham Radio Outlet store 701 E. Plano Parkway Suite 406, across the street from Fry's Electronics in Plano. The cost for the study guide should be $19.95. There are also a number of online practice exams that can help you identify those areas where you need a little extra practice.

To register for this class, or if you have additional questions, please send an email to Mike Pruden at (NN5ZZ@arrl.net). Please provide your NAME, EMAIL ADDRESS, and TELEPHONE NUMBER.

Thanks
Mike Pruden

NN5ZZ@arrl.net

3193. Judges Needed for Robotics Contest

Yahoo group: DAWG-HSMM
Date: 2017-01-12 15:10:53 UTC
From: Douglas Kilgore
Topic: 3193 Message: 3193
Attachments: 2 described; binary payloads are missing from this source WARC

Richardson High School Electronics instructor Steven Kavli is requesting our assistance. He needs two judges on Saturday, Feb. 11 at a student robotics competition to be held at Eastfield College. Documents are attached to this message that tells about the competition.

If you would like to see what the current generation of students is learning and perform a public service at the same time, please contact Mr. Kavli by sending email to Steven Kavli <Steven.Kavli@...> .

Doug Kilgore KD5OUG

-------- Forwarded Message --------
Subject: RE: Fwd: Richardson Wireless Klub presents ham radio at Richardson (TX) High School
Date: Wed, 11 Jan 2017 19:59:58 +0000
From: Kavli, Steven <Steven.Kavli@...>
To: Douglas Kilgore <kilgore1317@...>

SkillsUSA is the one of the student organizations for Career and Technology. District 6 will hold their robotics competitions on February 10 at Eastfield College. As organizer of the contests I am in need of judges. I have two returning judges from last year, but need at least 2 more to run the contests successfully. I have attached several documents outlining the two different contests that will be held at the competition. One contest is called Mobile Robotics. Richardson High School is the reigning National champion in this contest and has held the title for two consecutive years. The other contest is called Urban Search and Rescue. Each contest has different objectives and criteria. I would greatly appreciate any help that can be given to allow these students the opportunity to show off their robotics skills.

I have attached several documents and to video links to give a preview of each contest and their requirements.

https://www.youtube.com/watch?v=cmN-m3GiuTU

https://www.youtube.com/watch?v=HLf0GVVWoAg

If anyone would like more information, please do not hesitate to contact me.

Cell phone 254-952-9460

Thank you,

Steve Kavli

Electronics/Automotive Instructor

Richardson High School

469-952-9460

469-593-3006 Fax

Adjunct Professor Richland College

Students in the Richardson Independent School District have access to all Career and Technology Education (CTE) programs regardless of race, religion, color, national origin, sex, or handicapping condition. For additional information, contact the Title IX Coordinator (Assistant Superintendent of Human Resources) or the Section 504 Coordinator.

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3194. Re: [rwk-ntx] Judges Needed for Robotics Contest [2 Attachments] -OOPS - WRONG DATE

Yahoo group: DAWG-HSMM
Date: 2017-01-12 18:09:27 UTC
From: Douglas Kilgore
Topic: 3193 Message: 3194

SORRY, I LISTED THE WRONG DATE! The correct date is Friday, Feb. 10.

This is an opportunity for you retired folks to do something different
and worthwhile. Should be a fun day.

Doug

On 1/12/2017 9:10 AM, Douglas Kilgore kilgore1317@...
[rwk-ntx] wrote:
> [Attachment(s) <#TopText> from Douglas Kilgore included below]
>
> Richardson High School Electronics instructor Steven Kavli is
> requesting our assistance. He needs two judges on Saturday, Feb. 11
> at a student robotics competition to be held at Eastfield College.
> Documents are attached to this message that tells about the competition.
>
> If you would like to see what the current generation of students is
> learning and perform a public service at the same time, please contact
> Mr. Kavli by sending email to Steven Kavli <Steven.Kavli@...> .
>
> Doug Kilgore KD5OUG
>
>
> -------- Forwarded Message --------
> Subject: RE: Fwd: Richardson Wireless Klub presents ham radio at
> Richardson (TX) High School
> Date: Wed, 11 Jan 2017 19:59:58 +0000
> From: Kavli, Steven <Steven.Kavli@...>
> To: Douglas Kilgore <kilgore1317@...>
>
>
>
> SkillsUSA is the one of the student organizations for Career and
> Technology. District 6 will hold their robotics competitions on
> February 10 at Eastfield College. As organizer of the contests I am in
> need of judges. I have two returning judges from last year, but need
> at least 2 more to run the contests successfully. I have attached
> several documents outlining the two different contests that will be
> held at the competition. One contest is called Mobile Robotics.
> Richardson High School is the reigning National champion in this
> contest and has held the title for two consecutive years. The other
> contest is called Urban Search and Rescue. Each contest has different
> objectives and criteria. I would greatly appreciate any help that can
> be given to allow these students the opportunity to show off their

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>
> If anyone would like more information, please do not hesitate to
> contact me.
>
> Cell phone 254-952-9460
>
> Thank you,
>
> Steve Kavli
>
> Electronics/Automotive Instructor
>
> Richardson High School
>
> 469-952-9460
>
> 469-593-3006 Fax
>
> Adjunct Professor Richland College
>
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3195. Judges Needed for Robotics Contest Friday, Feb 10 Still needed

Yahoo group: DAWG-HSMM
Date: 2017-01-20 00:09:05 UTC
From: Douglas Kilgore
Topic: 3195 Message: 3195

Judges are still needed for the Robotics contest on Friday, Feb. 10.
If you would be willing to help, please contact Mr. Kavli now!

Doug Kilgore KD5OUG

On 1/19/2017 12:58 PM, Kavli, Steven wrote:
>
> If anyone is able to help me with this robotics competition, please
> let me know before next Monday.
>
> Thank you,
>
> Steve Kavli
>
> Electronics/Automotive Instructor
>
> Richardson High School
>
> 469-952-9460
>
> 469-593-3006 Fax
>
> Adjunct Professor Richland College
>
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> religion, color, national origin, sex, or handicapping condition. For
> additional information, contact the Title IX Coordinator (Assistant
> Superintendent of Human Resources) or the Section 504 Coordinator.
>
> *From:*Douglas Kilgore [mailto:kilgore1317@...]
> *Sent:* Thursday, January 12, 2017 12:09 PM
> *To:* rwk-ntx@yahoogroups.com; NTX-AREDN <ntx-aredn@...>;
> DAWG-HSMM@yahoogroups.com
> *Subject:* Re: [rwk-ntx] Judges Needed for Robotics Contest [2
> Attachments] -OOPS - WRONG DATE
>
> SORRY, I LISTED THE WRONG DATE! The correct date is Friday, Feb. 10.
>
> This is an opportunity for you retired folks to do something different
> and worthwhile. Should be a fun day.
>
> Doug
>
> On 1/12/2017 9:10 AM, Douglas Kilgore kilgore1317@...

> <mailto:kilgore1317@...> [rwk-ntx] wrote:
>
> *[Attachment(s) <#TopText> from Douglas Kilgore included below]*
>
>
> Richardson High School Electronics instructor Steven Kavli is
> requesting our assistance. He needs two judges on Saturday, Feb.
> 11 at a student robotics competition to be held at Eastfield
> College. Documents are attached to this message that tells about
> the competition.
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> If you would like to see what the current generation of students
> is learning and perform a public service at the same time, please
> contact Mr. Kavli by sending email to Steven Kavli
> <Steven.Kavli@...> <mailto:Steven.Kavli@...> .
>
> Doug Kilgore KD5OUG
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> -------- Forwarded Message --------
>
> *Subject: *
>
>
>
> RE: Fwd: Richardson Wireless Klub presents ham radio at Richardson
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> *Date: *
>
>
>
> Wed, 11 Jan 2017 19:59:58 +0000
>
> *From: *
>
>
>
> Kavli, Steven <Steven.Kavli@...> <mailto:Steven.Kavli@...>
>
> *To: *
>
>
>
> Douglas Kilgore <kilgore1317@...>
> <mailto:kilgore1317@...>
>
>
>
>

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> Technology. District 6 will hold their robotics competitions on
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> Robotics. Richardson High School is the reigning National champion
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> The other contest is called Urban Search and Rescue. Each contest
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> If anyone would like more information, please do not hesitate to
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> Cell phone 254-952-9460
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> Thank you,
>
> Steve Kavli
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> Electronics/Automotive Instructor
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3196. Memorial Service for Bill Kruger AE5BK

Yahoo group: DAWG-HSMM
Date: 2017-01-22 00:05:20 UTC
From: Douglas Kilgore
Topic: 3196 Message: 3196
Attachments: 1 described; binary payloads are missing from this source WARC

The memorial service for Bill Kruger AE5BK will be 2:00pm Wed., Jan. 25
at Highland Park Presbyterian Church, 3821 University Blvd, Dallas, TX.
See the attached announcement.

Doug Kilgore KD5OUG

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3197. URGENT - One more judge needed for Robotics Contest Friday, Feb 10

Yahoo group: DAWG-HSMM
Date: 2017-01-24 07:49:04 UTC
From: Douglas Kilgore
Topic: 3197 Message: 3197
Attachments: 1 described; binary payloads are missing from this source WARC

I have volunteered to be a judge for the Robotics Contest to be held all-day at Eastfield College on Friday, Feb. 10. Mr. Steven Kavli, the Electronics instructor at Richardson High School, has informed me that one of the persons originally signed up to be a judge had to drop out. So another judge is URGENTLY needed.

Please step up and volunteer to help with this technology event. Attached to this message are the Robotics: Urban Search and Rescue Challenge Technical Specifications by which the students will be judged. Retired Engineers - this is a natural for you.

Please call me NOW at 214-770-2394 so that I may relay your name to Mr. Kavli.

This all-day event will be fun.

Doug Kilgore KD5OUG

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3198. Central Florida Mesh

Yahoo group: DAWG-HSMM
Date: 2017-05-10 12:29:13 UTC
From: Tom Tishken KD4WOV WQVQ879 PGGB003773
Topic: 3198 Message: 3198

Here is an update:
Ben W4QED, was able to track down the fix for the linksys bug.

Now KD4WOV, W4QED, N4KM, N7WWK, and N4EH can now browse the group and use resources across the tunnels.

W4QED and KD4WOV both are running tunnel servers. If your interested in setting up a tunnel email me.

De kd4wov Tom
Sent via a mighty BlackBerry Bold 9000 by AT&T